



INPATIENT QUALITY INDICATORS (IQI) PARAMETER ESTIMATES ICD-9-CM Version 6.0

Prepared for:

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Executive Summary

This document provides statistical parameters associated with Version 6.0 ICD-9-CM of Agency for Healthcare Research and Quality (AHRQ) Quality Indicators™ (QI) Inpatient Quality Indicators (IQI). The parameter estimates derived for the AHRQ QI are based on analysis of the 2013 Agency for Healthcare Research and Quality's Healthcare Cost and Utilization Project (HCUP) State Inpatient Databases (SID).¹

HCUP is a family of health care databases and related software tools and products developed through a Federal- State-Industry partnership². HCUP includes the largest collection of longitudinal hospital care data in the United States, with all-payer, encounter-level information beginning in 1988. The SID contain all-payer, encounter-level information on inpatient discharges, including clinical and resource information typically found on a billing record, such as patient demographics, up to 30 *International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM)* diagnoses and procedures, length of stay (LOS), expected payer, admission and discharge dates and discharge disposition. In 2013, the HCUP databases represent more than 97 percent of all annual discharges in the U.S.³

¹Healthcare Cost and Utilization Project (HCUP) 2013 State Inpatient Databases (SID). Agency for Healthcare Research and Quality, Rockville, MD

²The AHRQ QI program would like to acknowledge the HCUP Partner organizations that participated in the HCUP SID: Alaska State Hospital and Nursing Home Association, Arizona Department of Health Services, Arkansas Department of Health, California Office of Statewide Health Planning and Development, Colorado Hospital Association, Connecticut Hospital Association, Florida Agency for Health Care Administration, Georgia Hospital Association, Hawaii Health Information Corporation, Illinois Department of Public Health, Indiana Hospital Association, Iowa Hospital Association, Kansas Hospital Association, Kentucky Cabinet for Health and Family Services, Louisiana Department of Health and Hospitals, Maine Health Data Organization, Maryland Health Services Cost Review Commission, Massachusetts Center for Health Information and Analysis, Michigan Health & Hospital Association, Minnesota Hospital Association (provides data for Minnesota and North Dakota), Mississippi Department of Health, Missouri Hospital Industry Data Institute, Montana MHA - An Association of Montana Health Care Providers, Nebraska Hospital Association, Nevada Department of Health and Human Services, New Hampshire Department of Health & Human Services, New Jersey Department of Health, New Mexico Department of Health, New York State Department of Health, North Carolina Department of Health and Human Services, North Dakota (data provided by the Minnesota Hospital Association), Ohio Hospital Association, Oklahoma State Department of Health, Oregon Association of Hospitals and Health Systems, Oregon Health Policy and Research, Pennsylvania Health Care Cost Containment Council, Rhode Island Department of Health, South Carolina Budget & Control Board, South Dakota Association of Healthcare Organizations, Tennessee Hospital Association, Texas Department of State Health Services, Utah Department of Health, Vermont Association of Hospitals and Health Systems, Virginia Health Information, Washington State Department of Health, West Virginia Health Care Authority, Wisconsin Department of Health Services, Wyoming Hospital Association

³The states included in the analysis are Arkansas, Arizona, California, Colorado, Florida, Georgia, Hawaii, Iowa, Illinois, Indiana, Kansas, Kentucky, Maryland, Maine, Michigan, Minnesota, Missouri, Montana, Minnesota, North Carolina, Nebraska, New Jersey, New Mexico, Nevada, New York, Ohio, Oklahoma, Oregon, Pennsylvania, South Carolina, South Dakota, Tennessee, Texas, Utah, Virginia, Vermont, Washington, Wisconsin, West Virginia, and Wyoming.

The analytic dataset used to generate the risk adjustment regression models in this document consists of the same hospital discharge records that comprise the reference population for Version 6.0 of the AHRQ QI software. This reference population file was limited to community hospitals and also excludes rehabilitation and long-term acute care (LTAC) hospitals. Information on the type of hospital was obtained by the American Hospital Association (AHA) Annual Survey of Hospitals. AHA defines community hospitals as “all non-Federal, short-term, general, and other specialty hospitals, excluding hospital units of institutions.” Included among community hospitals are specialty hospitals such as obstetrics-gynecology, ear-nose-throat, orthopedic, and pediatric institutions. Also included are public hospitals and academic medical centers.

Provider-Level Indicators (IQI 01-IQI 25, IQI 30-IQI 34, IQI 90, IQI 91):

In 2013, 34 of the SID include indicators of the diagnoses being present on admission (POA) and included the PRDAY data element. Discharges from these 34 participating States are used to develop provider-level indicators. Edit checks on POA were developed during an HCUP evaluation of POA coding in the 2011 SID at hospitals that were required to report POA to CMS (<http://www.hcup-us.ahrq.gov/reports/methods/2015-06.pdf>). The edits identify general patterns of suspect reporting of POA. The edits do not evaluate whether a valid POA value (e.g., Y or N) is appropriate for the specific diagnosis. There are three hospital-level edit checks:

1. Indication that a hospital has POA reported as Y on all diagnoses on all discharges
2. Indication that a hospital has POA reported as missing on all non-Medicare discharges
3. Indication that a hospital reported POA as missing on all nonexempt diagnoses for 15 percent or more of discharges. The cut-point of 15 percent was determined by 2 times the standard deviation plus the mean of the percentage for hospitals that are required to report POA to CMS.

Area-Level Indicators (IQI 26-IQI 29):

The 2013 HCUP SID includes information on all inpatient discharges from hospitals in participating States. Discharges from all 40 participating States are used to develop area-level indicators.

Additional information on the reference population and the risk adjustment process may be found in Quality Indicator Empirical Methods, available on the AHRQ QI™ website (<http://www.qualityindicators.ahrq.gov/modules/Default.aspx>).

This document is devoted to listing covariates and coefficients for risk adjustment regression models. The regression coefficients are used to calculate risk-adjusted rates that account for differences in patient populations across providers or areas. IQI 01-IQI 07, IQI 21-IQI 25, IQI 33, and IQI 34 are not risk adjusted, and thus are not presented in this document.

Covariates that are considered as potential risk adjusters for the provider-level IQI include sex and age, Major Diagnostic Categories (MDC), 3M All-Payer Refined Diagnosis-Related Group (APR-DRGs), Risk of Mortality subclass categories, and whether they were transferred from another facility. Descriptions of some variable categories are provided in the Appendix tables at

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the end of the document. Every covariate in every model is a binary indicator variable, coded using 0 or 1. The AHRQ QI software user does not need to manipulate or adjust these coefficients; rather this document is intended to make it transparent to the user how the risk adjusted QI rates are calculated.

For the area-level IQI, all models include only age and sex.

In addition to the presentation of the covariates for the risk models, this document provides the weights used in the provider-level composites (IQI 90 and IQI 91).

Additional information on the risk adjustment process and composite indicators maybe found in Quality Indicator Empirical Methods, available on the AHRQ QI™ website.
(<http://www.qualityindicators.ahrq.gov/modules/Default.aspx>)

¹States in the 2013 reference population for the provider-level indicators include: AR, AZ, CA, CO, FL, GA, HI, IA, IL, IN, KS, KY, MD, MI, MN, MT, NC, ND, NE, NJ, NM, NV, NY, OH, OR, PA, SC, SD, TN, TX, VA, VT, WA, and WI.

¹States in the 2013 reference population for the area-level indicators include: AR, AZ, CA, CO, CT, FL, GA, HI, IA, IL, IN, KS, KY, MD, MI, MN, MO, MT, NC, ND, NE, NJ, NM, NV, NY, OH, OK, OR, PA, SC, SD, TN, TX, UT, VA, VT, WA, WI, WV, and WY

¹ Averill RF, Goldfield N, Hughes JS, Bonazelli J, McCullough EC, Steinbeck BA, Mullin R, Tang AM. All Patient Refined Diagnosis Related Groups (APR-DRGs). Version 20.0. Methodology Overview. Document number GRP-041. Wallingford, CT: 3M Health Information Systems; 2003. Product website:
http://www.3m.com/3M/en_US/company-us/all-3m-products/~/3M-APR-DRG-Software?N=5002385+3293081278&rt=rud.

Table 1. Risk Adjustment Coefficients for IQI 08 - Esophageal Resection Mortality Rate

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR>CHI-SQUARE
Intercept	Intercept	1	-2.5243	0.6586	14.6896	0.0001
M_AgeCat_8	Male Age < 65	1	-0.2485	0.3331	0.5566	0.4556
M_AgeCat_9	Male Age >= 65	1	-0.281	0.3236	0.7541	0.3852
M_AgeCat_11	Male Age >= 75	1	0.1885	0.2592	0.5286	0.4672
F_AgeCat_8	Female Age < 65	1	-0.563	0.4936	1.3005	0.2541
F_AgeCat_11	Female Age >= 75	1	-0.6341	0.5598	1.2829	0.2574
MDC_6	MDC 6: Diseases & Disorders Of The Digestive System	1	1.3867	0.6051	5.2516	0.0219
ADX220_0001	DRG 220: Major stomach esophageal & duodenal procedures	1	-4.0579	0.5158	61.8981	<.0001
ADX220_0002	DRG 220: Major stomach esophageal & duodenal procedures	1	-4.4694	0.589	57.58	<.0001
ADX220_0003	DRG 220: Major stomach esophageal & duodenal procedures	1	-2.1112	0.2254	87.7117	<.0001

c-statistic=0.87

Please note the sex|age groups are open-ended and overlap. The effect for any sex|age group can be estimated by summing the coefficients for all applicable sex|age groups. Confidence intervals and p-values for sex|age groups cannot be estimated with this risk model. The sex| age reference group is women age 65 and 74 years.

Table 2. Risk Adjustment Coefficients for IQI 09A - Pancreatic Resection Mortality Rate - Stratum A: Presence Of Pancreatic Cancer

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR>CHI-SQUARE
Intercept	Intercept	1	-2.8804	0.5473	27.6946	<.0001
M_AgeCat_6	Male Age < 55	1	-0.3119	0.3831	0.6628	0.4156
M_AgeCat_8	Male Age < 65	1	0.4627	0.2817	2.6978	0.1005
M_AgeCat_9	Male Age >= 65	1	0.1474	0.2429	0.368	0.5441
M_AgeCat_11	Male Age >= 75	1	0.1345	0.2299	0.3422	0.5586
F_AgeCat_6	Female Age < 55	1	-0.8362	0.5212	2.5741	0.1086
F_AgeCat_8	Female Age < 65	1	0.3198	0.2912	1.206	0.2721
F_AgeCat_11	Female Age >= 75	1	-0.4051	0.2958	1.8759	0.1708
MDC_6	MDC 6: Diseases & Disorders Of The Digestive System	1	-2.345	0.8779	7.1352	0.0076
MDC_7	MDC 7: Diseases & Disorders Of The Hepatobiliary System & Pancreas	1	2.2103	0.5949	13.8017	0.0002
ADX220_0004	DRG 220: Major stomach esophageal & duodenal procedures	1	4.0044	0.7809	26.2929	<.0001
ADX260_0001	DRG 260: Major pancreas liver & shunt procedures	1	-5.1579	0.5053	104.1815	<.0001
ADX260_0002	DRG 260: Major pancreas liver & shunt procedures	1	-6.5626	0.7656	73.4739	<.0001
ADX260_0003	DRG 260: Major pancreas liver & shunt procedures	1	-3.7953	0.372	104.097	<.0001
ADX260_0004	DRG 260: Major pancreas liver & shunt procedures	1	-0.7848	0.3046	6.6377	0.01

c-statistic=0.921

Please note the sex|age groups are open-ended and overlap. The effect for any sex|age group can be estimated by summing the coefficients for all applicable sex|age groups. Confidence intervals and p-values for sex|age groups cannot be estimated with this risk model. The sex|age reference group is women age 65 and 74 years.

Table 3. Risk Adjustment Coefficients for IQI 09B - Pancreatic Resection Mortality Rate - Stratum B: Absence Of Pancreatic Cancer

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR>CHI-SQUARE
Intercept	Intercept	1	-3.8564	0.3072	157.6167	<.0001
M_AgeCat_6	Male Age < 55	1	0.0665	0.3471	0.0367	0.8481
M_AgeCat_8	Male Age < 65	1	-0.4255	0.3742	1.293	0.2555
M_AgeCat_9	Male Age >= 65	1	0.0655	0.3371	0.0378	0.8459
M_AgeCat_11	Male Age >= 75	1	0.8493	0.3307	6.5953	0.0102
F_AgeCat_6	Female Age < 55	1	0.454	0.4842	0.879	0.3485
F_AgeCat_8	Female Age < 65	1	-1.0592	0.4835	4.7985	0.0285
F_AgeCat_11	Female Age >= 75	1	0.2981	0.3795	0.617	0.4322
MDC_6	MDC 6: Diseases & Disorders Of The Digestive System	1	-0.5022	0.3635	1.9087	0.1671
MDC_7	MDC 7: Diseases & Disorders Of The Hepatobiliary System & Pancreas	1	-0.5922	0.2805	4.4569	0.0348
MDC_11	MDC 11: Diseases & Disorders Of The Kidney & Urinary Tract	1	1.9117	0.38	25.306	<.0001
MDC_18	MDC 18: Infectious & Parasitic Diseases Systemic Or Unspecified Sites	1	2.6413	0.5067	27.1755	<.0001
MDC_24	MDC 24: Multiple Significant Trauma	1	2.6457	0.3205	68.1423	<.0001
ADX220_0003	DRG 220: Major stomach esophageal & duodenal procedures	1	1.3995	0.4446	9.9077	0.0016
ADX220_0004	DRG 220: Major stomach esophageal & duodenal procedures	1	2.7089	0.4086	43.9468	<.0001
ADX221_0034	DRG 221: Major small & large bowel procedures	1	1.7118	0.5227	10.7228	0.0011
ADX680_0004	DRG 680: Major O.R. procedures for lymphatic/hematopoietic/other neoplasms	1	1.724	0.4548	14.3714	0.0002

c-statistic=0.824

Please note the sex|age groups are open-ended and overlap. The effect for any sex|age group can be estimated by summing the coefficients for all applicable sex|age groups. Confidence intervals and p-values for sex|age groups cannot be estimated with this risk model. The sex|age reference group is women age 65 and 74 years.

Table 4. Risk Adjustment Coefficients for IQI 11A - AAA Repair Mortality Rate - Stratum A: Open Repair Of Ruptured AAA

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR>CHI-SQUARE
Intercept	Intercept	1	0.3991	0.4485	0.7919	0.3735
M_AgeCat_8	Male Age < 65	1	-0.7723	0.287	7.2393	0.0071
M_AgeCat_9	Male Age >= 65	1	-0.4482	0.2683	2.7894	0.0949
M_AgeCat_11	Male Age >= 75	1	0.5943	0.1802	10.8809	0.001
M_AgeCat_13	Male Age >= 85	1	0.387	0.2862	1.8286	0.1763
F_AgeCat_8	Female Age < 65	1	-0.239	0.4529	0.2784	0.5978
F_AgeCat_11	Female Age >= 75	1	0.0576	0.3168	0.0331	0.8557
F_AgeCat_13	Female Age >= 85	1	0.5672	0.3568	2.5274	0.1119
MDC_5	MDC 5: Diseases & Disorders Of The Circulatory System	1	-1.5176	0.4622	10.778	0.001
ADX169_1234	DRG 169: Major thoracic & abdominal vascular procedures	1	0.6385	0.2643	5.837	0.0157

c-statistic=0.635

Please note the sex|age groups are open-ended and overlap. The effect for any sex|age group can be estimated by summing the coefficients for all applicable sex|age groups. Confidence intervals and p-values for sex|age groups cannot be estimated with this risk model. The sex|age reference group is women age 65 and 74 years.

Table 5. Risk Adjustment Coefficients for IQI 11B - AAA Repair Mortality Rate - Stratum B: Open Repair Of Unruptured AAA

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR>CHI-SQUARE
Intercept	Intercept	1	-2.15	0.2747	61.266	<.0001
M_AgeCat_8	Male Age < 65	1	-0.3442	0.2932	1.3783	0.2404
M_AgeCat_9	Male Age >= 65	1	-0.6959	0.2647	6.9109	0.0086
M_AgeCat_11	Male Age >= 75	1	0.2402	0.254	0.8937	0.3445
F_AgeCat_8	Female Age < 65	1	-0.048	0.3849	0.0156	0.9007
F_AgeCat_11	Female Age >= 75	1	-0.4247	0.2961	2.0563	0.1516
ADX169_0001	DRG 169: Major thoracic & abdominal vascular procedures	1	-2.3936	0.4522	28.0117	<.0001
ADX169_0002	DRG 169: Major thoracic & abdominal vascular procedures	1	-2.5796	0.4891	27.8111	<.0001
ADX169_0003	DRG 169: Major thoracic & abdominal vascular procedures	1	-0.8795	0.2827	9.6768	0.0019
ADX169_0004	DRG 169: Major thoracic & abdominal vascular procedures	1	1.1396	0.2338	23.7598	<.0001

c-statistic=0.838

Please note the sex|age groups are open-ended and overlap. The effect for any sex|age group can be estimated by summing the coefficients for all applicable sex|age groups. Confidence intervals and p-values for sex|age groups cannot be estimated with this risk model. The sex| age reference group is women age 65 and 74 years.

Table 6. Risk Adjustment Coefficients for IQI 11C - AAA Repair Mortality Rate - Stratum C: Endovascular Repair Of Ruptured AAA

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR>CHI-SQUARE
Intercept	Intercept	1	-1.3263	0.2547	27.1176	<.0001
M_AgeCat_8	Male Age < 65	1	-0.7963	0.3314	5.7746	0.0163
M_AgeCat_9	Male Age >= 65	1	-0.2861	0.2844	1.0121	0.3144
M_AgeCat_11	Male Age >= 75	1	0.26	0.1808	2.0674	0.1505
M_AgeCat_13	Male Age >= 85	1	0.4775	0.2153	4.9171	0.0266
F_AgeCat_8	Female Age < 65	1	-1.2974	0.6535	3.941	0.0471
F_AgeCat_11	Female Age >= 75	1	0.3392	0.336	1.019	0.3128
F_AgeCat_13	Female Age >= 85	1	0.2939	0.3344	0.7724	0.3795
ADX169_1234	DRG 169: Major thoracic & abdominal vascular procedures	1	1.1166	0.3119	12.8164	0.0003
ADX175_0004	DRG 175: Percutaneous cardiovascular procedures w/o AMI	1	1.0956	0.2823	15.0677	0.0001

c-statistic=0.643

Please note the sex|age groups are open-ended and overlap. The effect for any sex|age group can be estimated by summing the coefficients for all applicable sex|age groups. Confidence intervals and p-values for sex|age groups cannot be estimated with this risk model. The sex|age reference group is women age 65 and 74 years.

Table 7. Risk Adjustment Coefficients for IQI 11D - AAA Repair Mortality Rate - Stratum D: Endovascular Repair Of Unruptured AAA

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR>CHI-SQUARE
Intercept	Intercept	1	-4.4	0.2919	227.2728	<.0001
M_AgeCat_8	Male Age < 65	1	-0.922	0.4776	3.7261	0.0536
M_AgeCat_9	Male Age >= 65	1	-0.4927	0.317	2.4153	0.1202
M_AgeCat_11	Male Age >= 75	1	0.0171	0.2394	0.0051	0.9429
M_AgeCat_13	Male Age >= 85	1	0.5915	0.2678	4.8769	0.0272
F_AgeCat_8	Female Age < 65	1	-0.2012	0.5854	0.1182	0.731
F_AgeCat_11	Female Age >= 75	1	0.0339	0.3368	0.0101	0.9199
F_AgeCat_13	Female Age >= 85	1	0.2945	0.3436	0.7346	0.3914
ADX169_0004	DRG 169: Major thoracic & abdominal vascular procedures	1	4.354	0.3168	188.8526	<.0001
ADX173_0001	DRG 173: Other vascular procedures	1	-3.8883	0.7227	28.9443	<.0001
ADX173_0002	DRG 173: Other vascular procedures	1	-2.5643	0.4709	29.6491	<.0001
ADX173_0004	DRG 173: Other vascular procedures	1	3.1174	0.1933	260.1249	<.0001
ADX175_0004	DRG 175: Percutaneous cardiovascular procedures w/o AMI	1	3.7364	0.2809	176.9169	<.0001
ADX710_1234	DRG 710: Infectious & parasitic diseases including HIV w O.R. procedure	1	3.2218	0.4803	45.0004	<.0001

c-statistic=0.643

Please note the sex|age groups are open-ended and overlap. The effect for any sex|age group can be estimated by summing the coefficients for all applicable sex|age groups. Confidence intervals and p-values for sex|age groups cannot be estimated with this risk model. The sex|age reference group is women age 65 and 74 years.

Table 8. Risk Adjustment Coefficients for IQI 12 - Coronary Artery Bypass Graft (CABG) Mortality Rate

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR>CHI-SQUARE
Intercept	Intercept	1	-2.9438	0.1667	312.0044	<.0001
M_AgeCat_6	Male Age < 55	1	0.1515	0.0884	2.9369	0.0866
M_AgeCat_8	Male Age < 65	1	-0.3503	0.0724	23.3872	<.0001
M_AgeCat_9	Male Age >= 65	1	-0.3675	0.064	32.9908	<.0001
M_AgeCat_11	Male Age >= 75	1	0.2715	0.056	23.4864	<.0001
M_AgeCat_13	Male Age >= 85	1	0.4266	0.0961	19.711	<.0001
F_AgeCat_6	Female Age < 55	1	-0.2947	0.1386	4.5217	0.0335
F_AgeCat_8	Female Age < 65	1	0.1368	0.0869	2.4776	0.1155
F_AgeCat_11	Female Age >= 75	1	0.3125	0.0695	20.2314	<.0001
F_AgeCat_13	Female Age >= 85	1	0.1772	0.1221	2.1049	0.1468
MDC_4	MDC 4: Diseases & Disorders Of The Respiratory System	1	0.6645	0.2835	5.4959	0.0191
MDC_5	MDC 5: Diseases & Disorders Of The Circulatory System	1	1.9603	0.1663	138.868	<.0001
MDC_18	MDC 18: Infectious & Parasitic Diseases Systemic Or Unspecified Sites	1	1.1868	0.2487	22.7679	<.0001
ADX161_0003	DRG 161: Cardiac defibrillator & heart assist implant	1	-1.3835	0.1986	48.5165	<.0001
ADX161_0012	DRG 161: Cardiac defibrillator & heart assist implant	1	-1.5751	0.3932	16.0442	<.0001
ADX162_0003	DRG 162: Cardiac valve procedures w cardiac catheterization	1	-2.6104	0.123	450.6712	<.0001
ADX162_0004	DRG 162: Cardiac valve procedures w cardiac catheterization	1	-0.7043	0.0758	86.2772	<.0001
ADX162_0012	DRG 162: Cardiac valve procedures w cardiac catheterization	1	-4.2763	0.3057	195.7122	<.0001

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PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR>CHI-SQUARE
ADX163_0003	DRG 163: Cardiac valve procedures w/o cardiac catheterization	1	-2.7542	0.0994	767.541	<.0001
ADX163_0004	DRG 163: Cardiac valve procedures w/o cardiac catheterization	1	-0.5855	0.0694	71.1111	<.0001
ADX163_0012	DRG 163: Cardiac valve procedures w/o cardiac catheterization	1	-4.4274	0.1829	585.8832	<.0001
ADX165_0001	DRG 165: Coronary bypass w cardiac cath or percutaneous cardiac procedure	1	-5.6373	0.2927	370.9667	<.0001
ADX165_0002	DRG 165: Coronary bypass w cardiac cath or percutaneous cardiac procedure	1	-5.0727	0.1475	1183.24	<.0001
ADX165_0003	DRG 165: Coronary bypass w cardiac cath or percutaneous cardiac procedure	1	-3.2455	0.0762	1812.982	<.0001
ADX165_0004	DRG 165: Coronary bypass w cardiac cath or percutaneous cardiac procedure	1	-1.1421	0.0579	389.3522	<.0001
ADX166_0001	DRG 166: Coronary bypass w/o cardiac cath or percutaneous cardiac procedure	1	-5.9887	0.2926	418.9235	<.0001
ADX166_0002	DRG 166: Coronary bypass w/o cardiac cath or percutaneous cardiac procedure	1	-5.1063	0.1628	983.4646	<.0001
ADX166_0003	DRG 166: Coronary bypass w/o cardiac cath or percutaneous cardiac procedure	1	-3.4831	0.0988	1242.071	<.0001
ADX166_0004	DRG 166: Coronary bypass w/o cardiac cath or percutaneous cardiac procedure	1	-0.9921	0.0679	213.2419	<.0001
ADX710_0123	DRG 710: Infectious & parasitic diseases including HIV w O.R. procedure	1	-1.1082	0.6226	3.1682	0.0751

c-statistic=0.895

Please note the sex|age groups are open-ended and overlap. The effect for any sex|age group can be estimated by summing the coefficients for all applicable sex|age groups. Confidence intervals and p-values for sex|age groups cannot be estimated with this risk model. The sex|age reference group is women age 65 and 74 years.

Table 9. Risk Adjustment Coefficients for IQI 13 - Craniotomy Mortality Rate

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR>CHI-SQUARE
Intercept	Intercept	1	-3.2775	0.0566	3352.599	<.0001
M_AgeCat_6	Male Age < 55	1	-0.1805	0.0557	10.5062	0.0012
M_AgeCat_8	Male Age < 65	1	0.3472	0.0614	31.9216	<.0001
M_AgeCat_9	Male Age >= 65	1	0.1289	0.0625	4.2456	0.0394
M_AgeCat_11	Male Age >= 75	1	0.1172	0.0665	3.1095	0.0778
M_AgeCat_13	Male Age >= 85	1	0.4407	0.1092	16.2726	<.0001
M_AgeCat_14	Male Age >= 90	1	-0.0888	0.223	0.1585	0.6905
F_AgeCat_6	Female Age < 55	1	-0.1497	0.0613	5.9657	0.0146
F_AgeCat_8	Female Age < 65	1	0.088	0.0646	1.8548	0.1732
F_AgeCat_11	Female Age >= 75	1	0.4233	0.0676	39.2317	<.0001
F_AgeCat_13	Female Age >= 85	1	0.206	0.1092	3.5571	0.0593
F_AgeCat_14	Female Age >= 90	1	0.1751	0.2062	0.7207	0.3959
ADX021_0001	DRG 21: Craniotomy except for trauma	1	-3.9153	0.1997	384.3067	<.0001
ADX021_0002	DRG 21: Craniotomy except for trauma	1	-2.176	0.1118	379.047	<.0001
ADX021_0004	DRG 21: Craniotomy except for trauma	1	2.3448	0.0411	3256.73	<.0001
ADX022_0001	DRG 22: Ventricular shunt procedures	1	-4.686	0.5014	87.3266	<.0001
ADX022_0002	DRG 22: Ventricular shunt procedures	1	-1.924	0.2807	46.9847	<.0001
ADX022_0004	DRG 22: Ventricular shunt procedures	1	2.4956	0.0743	1127.784	<.0001
ADX023_0004	DRG 23: Spinal procedures	1	2.368	0.3673	41.5594	<.0001
ADX024_0001	DRG 24: Extracranial vascular procedures	1	-4.3093	0.5016	73.8178	<.0001

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PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR>CHI-SQUARE
ADX024_0002	DRG 24: Extracranial vascular procedures	1	-1.2825	0.1596	64.5806	<.0001
ADX024_0003	DRG 24: Extracranial vascular procedures	1	0.5377	0.0887	36.7445	<.0001
ADX024_0004	DRG 24: Extracranial vascular procedures	1	2.218	0.0616	1296.265	<.0001

c-statistic=0.919

Please note the sex|age groups are open-ended and overlap. The effect for any sex|age group can be estimated by summing the coefficients for all applicable sex|age groups. Confidence intervals and p-values for sex|age groups cannot be estimated with this risk model. The sex|age reference group is women age 65 and 74 years.

Table 10. Risk Adjustment Coefficients for IQI 14 - Hip Replacement Mortality Rate

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR>CHI-SQUARE
Intercept	Intercept	1	-3.9892	0.4022	98.3574	<.0001
M_AgeCat_8	Male Age < 65	1	0.1413	0.3764	0.1409	0.7074
M_AgeCat_9	Male Age >= 65	1	-0.1358	0.3654	0.1382	0.7101
M_AgeCat_11	Male Age >= 75	1	0.3892	0.3591	1.1748	0.2784
M_AgeCat_13	Male Age >= 85	1	0.1002	0.4188	0.0573	0.8108
F_AgeCat_8	Female Age < 65	1	-0.1815	0.4371	0.1724	0.678
F_AgeCat_11	Female Age >= 75	1	0.2048	0.3097	0.437	0.5086
F_AgeCat_13	Female Age >= 85	1	0.5553	0.305	3.3144	0.0687
ADX301_0001	DRG 301: Hip joint replacement	1	-6.0943	0.476	163.9005	<.0001
ADX301_0002	DRG 301: Hip joint replacement	1	-5.0696	0.5618	81.4375	<.0001
ADX301_0003	DRG 301: Hip joint replacement	1	-1.7689	0.3959	19.9648	<.0001
ADX301_0004	DRG 301: Hip joint replacement	1	1.5303	0.3619	17.8856	<.0001

c-statistic=0.962

Please note the sex|age groups are open-ended and overlap. The effect for any sex|age group can be estimated by summing the coefficients for all applicable sex|age groups. Confidence intervals and p-values for sex|age groups cannot be estimated with this risk model. The sex|age reference group is women age 65 and 74 years.

Table 11. Risk Adjustment Coefficients for IQI 15 - Acute Myocardial Infarction (AMI) Mortality Rate

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR>CHI-SQUARE
Intercept	Intercept	1	-3.6765	0.4222	75.8134	<.0001
M_AgeCat_6	Male Age < 55	1	-0.2537	0.0397	40.8156	<.0001
M_AgeCat_8	Male Age < 65	1	0.0759	0.035	4.697	0.0302
M_AgeCat_9	Male Age >= 65	1	0.0768	0.0328	5.4625	0.0194
M_AgeCat_11	Male Age >= 75	1	0.1591	0.0282	31.798	<.0001
M_AgeCat_13	Male Age >= 85	1	0.1453	0.0348	17.4855	<.0001
M_AgeCat_14	Male Age >= 90	1	0.1218	0.0448	7.3979	0.0065
F_AgeCat_6	Female Age < 55	1	-0.1659	0.0597	7.7307	0.0054
F_AgeCat_8	Female Age < 65	1	-0.0325	0.0431	0.5659	0.4519
F_AgeCat_11	Female Age >= 75	1	0.1075	0.0335	10.3035	0.0013
F_AgeCat_13	Female Age >= 85	1	0.1112	0.0346	10.3116	0.0013
F_AgeCat_14	Female Age >= 90	1	0.2911	0.0377	59.7157	<.0001
MDC_5	MDC 5: DISEASES & DISORDERS OF THE CIRCULATORY SYSTEM	1	2.1557	0.4199	26.3579	<.0001
ADX161_0001	DRG 161: Cardiac defibrillator & heart assist implant	1	-1.6775	0.5909	8.058	0.0045
ADX161_0002	DRG 161: Cardiac defibrillator & heart assist implant	1	-1.7192	0.2372	52.5474	<.0001
ADX161_0003	DRG 161: Cardiac defibrillator & heart assist implant	1	-1.512	0.129	137.3374	<.0001
ADX161_0004	DRG 161: Cardiac defibrillator & heart assist implant	1	0.5553	0.0607	83.5733	<.0001
ADX162_0003	DRG 162: Cardiac valve procedures w cardiac catheterization	1	-1.9697	0.2068	90.7299	<.0001
ADX162_0012	DRG 162: Cardiac valve procedures w cardiac catheterization	1	-3.5914	0.5804	38.2825	<.0001

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PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR>CHI-SQUARE
ADX163_0003	DRG 163: Cardiac valve procedures w/o cardiac catheterization	1	-2.286	0.4544	25.3048	<.0001
ADX163_0012	DRG 163: Cardiac valve procedures w/o cardiac catheterization	1	-2.357	0.5852	16.2216	<.0001
ADX165_0003	DRG 165: Coronary bypass w cardiac cath or percutaneous cardiac procedure	1	-2.7485	0.0899	934.1475	<.0001
ADX165_0004	DRG 165: Coronary bypass w cardiac cath or percutaneous cardiac procedure	1	-0.7461	0.0585	162.5885	<.0001
ADX165_0012	DRG 165: Coronary bypass w cardiac cath or percutaneous cardiac procedure	1	-4.5302	0.1782	646.075	<.0001
ADX166_0003	DRG 166: Coronary bypass w/o cardiac cath or percutaneous cardiac procedure	1	-2.9037	0.1974	216.3155	<.0001
ADX166_0004	DRG 166: Coronary bypass w/o cardiac cath or percutaneous cardiac procedure	1	-0.5389	0.1036	27.0435	<.0001
ADX166_0012	DRG 166: Coronary bypass w/o cardiac cath or percutaneous cardiac procedure	1	-5.2789	0.5018	110.6855	<.0001
ADX167_0004	DRG 167: Other cardiothoracic procedures	1	0.8715	0.296	8.6713	0.0032
ADX167_0123	DRG 167: Other cardiothoracic procedures	1	-0.9615	0.4683	4.2156	0.0401
ADX169_0002	DRG 169: Major thoracic & abdominal vascular procedures	1	-2.3345	1.0119	5.322	0.0211
ADX169_0003	DRG 169: Major thoracic & abdominal vascular procedures	1	-1.6476	0.5915	7.7588	0.0053
ADX169_0004	DRG 169: Major thoracic & abdominal vascular procedures	1	0.8006	0.226	12.5455	0.0004
ADX170_0003	DRG 170: Permanent cardiac pacemaker implant w AMI heart failure or shock	1	-2.4126	0.2732	77.9654	<.0001
ADX173_0003	DRG 173: Other vascular procedures	1	-1.599	0.2082	58.9771	<.0001
ADX173_0004	DRG 173: Other vascular procedures	1	0.6323	0.1469	18.5311	<.0001
ADX173_0012	DRG 173: Other vascular procedures	1	-1.7646	0.5897	8.9546	0.0028
ADX174_0001	DRG 174: Percutaneous cardiovascular procedures w AMI	1	-5.4385	0.1131	2313.699	<.0001

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PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR>CHI-SQUARE
ADX174_0002	DRG 174: Percutaneous cardiovascular procedures w AMI	1	-4.1135	0.0717	3291.108	<.0001
ADX174_0003	DRG 174: Percutaneous cardiovascular procedures w AMI	1	-2.288	0.0532	1847.254	<.0001
ADX174_0004	DRG 174: Percutaneous cardiovascular procedures w AMI	1	0.2224	0.0405	30.1245	<.0001
ADX175_0001	DRG 175: Percutaneous cardiovascular procedures w/o AMI	1	-4.6469	1.0018	21.5166	<.0001
ADX175_0002	DRG 175: Percutaneous cardiovascular procedures w/o AMI	1	-2.7821	0.5828	22.7908	<.0001
ADX175_0003	DRG 175: Percutaneous cardiovascular procedures w/o AMI	1	-1.3744	0.3915	12.3253	0.0004
ADX176_0034	DRG 176: Cardiac pacemaker & defibrillator device replacement	1	-1.727	0.7246	5.6799	0.0172
ADX180_0003	DRG 180: Other circulatory system procedures	1	-1.2703	0.3138	16.3888	<.0001
ADX180_0012	DRG 180: Other circulatory system procedures	1	-2.3913	0.7158	11.1597	0.0008
ADX190_0001	DRG 190: Acute myocardial infarction	1	-4.2908	0.1255	1168.52	<.0001
ADX190_0002	DRG 190: Acute myocardial infarction	1	-2.8623	0.0588	2367.434	<.0001
ADX190_0003	DRG 190: Acute myocardial infarction	1	-1.3875	0.0403	1185.963	<.0001
ADX190_0004	DRG 190: Acute myocardial infarction	1	0.7259	0.0393	340.8797	<.0001
ADX191_0001	DRG 191: Cardiac catheterization w circ disord exc ischemic heart disease	1	-3.1417	1.0053	9.7658	0.0018
ADX191_0002	DRG 191: Cardiac catheterization w circ disord exc ischemic heart disease	1	-3.2554	1.0052	10.4873	0.0012
ADX198_0001	DRG 198: Angina pectoris & coronary atherosclerosis	1	-1.2529	0.3681	11.5852	0.0007
ADX198_0002	DRG 198: Angina pectoris & coronary atherosclerosis	1	-1.0658	0.2262	22.1947	<.0001
ADX198_0003	DRG 198: Angina pectoris & coronary atherosclerosis	1	-0.4057	0.1769	5.2596	0.0218
TRANSFER	Transfer Status	1	0.0294	0.0211	1.9368	0.164

c-statistic=0.894

Table 12. Risk Adjustment Coefficients for IQI 16 - Congestive Heart Failure (CHF) Morality Rate

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR>CHI-SQUARE
Intercept	Intercept	1	-2.4641	0.046	2874.719	<.0001
M_AgeCat_6	Male Age < 55	1	-0.2197	0.0499	19.3477	<.0001
M_AgeCat_8	Male Age < 65	1	0.1454	0.0408	12.6733	0.0004
M_AgeCat_9	Male Age >= 65	1	0.1545	0.0346	19.9242	<.0001
M_AgeCat_11	Male Age >= 75	1	0.3279	0.0287	130.7592	<.0001
M_AgeCat_13	Male Age >= 85	1	0.2232	0.0301	54.9457	<.0001
M_AgeCat_14	Male Age >= 90	1	0.2324	0.0367	40.0164	<.0001
F_AgeCat_6	Female Age < 55	1	-0.0938	0.067	1.9622	0.1613
F_AgeCat_8	Female Age < 65	1	-0.0363	0.0487	0.5566	0.4556
F_AgeCat_11	Female Age >= 75	1	0.2623	0.0326	64.6895	<.0001
F_AgeCat_13	Female Age >= 85	1	0.2869	0.0293	95.8411	<.0001
F_AgeCat_14	Female Age >= 90	1	0.2871	0.0305	88.6514	<.0001
ADX161_0001	DRG 161: Cardiac defibrillator & heart assist implant	1	-4.9599	0.7084	49.0148	<.0001
ADX161_0002	DRG 161: Cardiac defibrillator & heart assist implant	1	-4.4278	0.3802	135.6359	<.0001
ADX161_0003	DRG 161: Cardiac defibrillator & heart assist implant	1	-3.2009	0.2172	217.1683	<.0001
ADX161_0004	DRG 161: Cardiac defibrillator & heart assist implant	1	-0.6595	0.1232	28.6396	<.0001
ADX162_0003	DRG 162: Cardiac valve procedures w cardiac catheterization	1	-1.2899	0.243	28.186	<.0001
ADX162_0004	DRG 162: Cardiac valve procedures w cardiac catheterization	1	0.3033	0.1489	4.1473	0.0417
ADX163_0003	DRG 163: Cardiac valve procedures w/o cardiac catheterization	1	-1.1529	0.3632	10.0746	0.0015

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PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR>CHI-SQUARE
ADX163_0004	DRG 163: Cardiac valve procedures w/o cardiac catheterization	1	1.0015	0.1791	31.2846	<.0001
ADX165_0003	DRG 165: Coronary bypass w cardiac cath or percutaneous cardiac procedure	1	-1.6138	0.3075	27.54	<.0001
ADX167_0123	DRG 167: Other cardiothoracic procedures	1	-1.4455	0.7187	4.0443	0.0443
ADX170_0002	DRG 170: Permanent cardiac pacemaker implant w AMI heart failure or shock	1	-4.3831	0.7088	38.2341	<.0001
ADX170_0003	DRG 170: Permanent cardiac pacemaker implant w AMI heart failure or shock	1	-2.8125	0.2813	99.9328	<.0001
ADX173_0003	DRG 173: Other vascular procedures	1	-1.4823	0.2245	43.5768	<.0001
ADX173_0004	DRG 173: Other vascular procedures	1	0.7399	0.13	32.3832	<.0001
ADX173_0012	DRG 173: Other vascular procedures	1	-3.5694	0.7093	25.3228	<.0001
ADX175_0003	DRG 175: Percutaneous cardiovascular procedures w/o AMI	1	-2.3273	0.1699	187.6501	<.0001
ADX175_0012	DRG 175: Percutaneous cardiovascular procedures w/o AMI	1	-3.8052	0.3561	114.1689	<.0001
ADX176_0001	DRG 176: Cardiac pacemaker & defibrillator device replacement	1	-2.5202	1.0058	6.2785	0.0122
ADX176_0002	DRG 176: Cardiac pacemaker & defibrillator device replacement	1	-3.8902	1.0022	15.0673	0.0001
ADX176_0003	DRG 176: Cardiac pacemaker & defibrillator device replacement	1	-3.5121	0.7098	24.4839	<.0001
ADX176_0004	DRG 176: Cardiac pacemaker & defibrillator device replacement	1	-0.6457	0.3697	3.0509	0.0807
ADX177_0003	DRG 177: Cardiac pacemaker & defibrillator revision except device replacement	1	-0.8088	0.3	7.2677	0.007
ADX177_0004	DRG 177: Cardiac pacemaker & defibrillator revision except device replacement	1	1.1016	0.2777	15.7393	<.0001
ADX180_0002	DRG 180: Other circulatory system procedures	1	-3.2388	0.5026	41.5304	<.0001
ADX180_0003	DRG 180: Other circulatory system procedures	1	-1.7659	0.1884	87.857	<.0001
ADX180_0004	DRG 180: Other circulatory system procedures	1	0.3158	0.1262	6.2631	0.0123

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PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR>CHI-SQUARE
ADX191_0001	DRG 191: Cardiac catheterization w circ disord exc ischemic heart disease	1	-4.7436	0.3802	155.6521	<.0001
ADX191_0002	DRG 191: Cardiac catheterization w circ disord exc ischemic heart disease	1	-4.1447	0.1868	492.5297	<.0001
ADX191_0003	DRG 191: Cardiac catheterization w circ disord exc ischemic heart disease	1	-2.1155	0.0803	694.2385	<.0001
ADX191_0004	DRG 191: Cardiac catheterization w circ disord exc ischemic heart disease	1	0.1891	0.0578	10.7075	0.0011
ADX194_0001	DRG 194: Heart failure	1	-3.4167	0.0796	1843.477	<.0001
ADX194_0002	DRG 194: Heart failure	1	-2.7294	0.0446	3749.847	<.0001
ADX194_0003	DRG 194: Heart failure	1	-1.5178	0.0404	1411.189	<.0001
ADX194_0004	DRG 194: Heart failure	1	0.2791	0.04	48.6736	<.0001
TRANSFER	Transfer Status	1	0.6569	0.0296	493.542	<.0001

c-statistic=0.826

Please note the sex|age groups are open-ended and overlap. The effect for any sex|age group can be estimated by summing the coefficients for all applicable sex|age groups. Confidence intervals and p-values for sex|age groups cannot be estimated with this risk model. The sex|age reference group is women age 65 and 74 years.

Table 13. Risk Adjustment Coefficients for IQI 17A - Acute Stroke Mortality Rate - Stratum A: Subarachnoid Hemorrhage

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR>CHI-SQUARE
Intercept	Intercept	1	-2.3688	0.0802	871.3673	<.0001
M_AgeCat_6	Male Age < 55	1	-0.0725	0.0999	0.5269	0.4679
M_AgeCat_8	Male Age < 65	1	-0.0146	0.1036	0.0199	0.8878
M_AgeCat_9	Male Age >= 65	1	-0.0628	0.1089	0.3323	0.5643
M_AgeCat_11	Male Age >= 75	1	0.2252	0.1341	2.8171	0.0933
M_AgeCat_13	Male Age >= 85	1	0.4985	0.2017	6.1046	0.0135
M_AgeCat_14	Male Age >= 90	1	0.4805	0.3018	2.5351	0.1113
F_AgeCat_6	Female Age < 55	1	-0.1155	0.0818	1.9939	0.1579
F_AgeCat_8	Female Age < 65	1	-0.0022	0.0922	0.0006	0.981
F_AgeCat_11	Female Age >= 75	1	0.5243	0.1001	27.4119	<.0001
F_AgeCat_13	Female Age >= 85	1	0.0366	0.1424	0.0661	0.7972
F_AgeCat_14	Female Age >= 90	1	0.2652	0.199	1.777	0.1825
ADX021_0001	DRG 21: Craniotomy except for trauma	1	-2.9534	0.5037	34.3774	<.0001
ADX021_0002	DRG 21: Craniotomy except for trauma	1	-0.9724	0.2591	14.0887	0.0002
ADX021_0004	DRG 21: Craniotomy except for trauma	1	2.0566	0.0624	1087.786	<.0001
ADX022_1234	DRG 22: Ventricular shunt procedures	1	1.644	0.1239	175.9793	<.0001
ADX024_0001	DRG 24: Extracranial vascular procedures	1	-3.0909	0.5035	37.6826	<.0001
ADX024_0002	DRG 24: Extracranial vascular procedures	1	-2.1383	0.4523	22.3456	<.0001
ADX024_0003	DRG 24: Extracranial vascular procedures	1	-0.5563	0.211	6.9489	0.0084

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PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR>CHI-SQUARE
ADX024_0004	DRG 24: Extracranial vascular procedures	1	1.2345	0.1247	98.0394	<.0001
ADX044_0004	DRG 44: Intracranial hemorrhage	1	3.2615	0.0656	2469.475	<.0001
ADX044_0012	DRG 44: Intracranial hemorrhage	1	-1.2644	0.1274	98.5281	<.0001

c-statistic=0.878

Please note the sex|age groups are open-ended and overlap. The effect for any sex|age group can be estimated by summing the coefficients for all applicable sex|age groups. Confidence intervals and p-values for sex|age groups cannot be estimated with this risk model. The sex| age reference group is women age 65 and 74 years.

Table 14. Risk Adjustment Coefficients for IQI 17B - Acute Stroke Mortality Rate - Stratum B: Intracerebral Hemorrhage

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR>CHI-SQUARE
Intercept	Intercept	1	-2.1829	0.0416	2749.491	<.0001
M_AgeCat_6	Male Age < 55	1	-0.0972	0.0492	3.9074	0.0481
M_AgeCat_8	Male Age < 65	1	-0.0534	0.0504	1.1231	0.2892
M_AgeCat_9	Male Age >= 65	1	-0.0466	0.0487	0.9164	0.3384
M_AgeCat_11	Male Age >= 75	1	0.1511	0.0444	11.5996	0.0007
M_AgeCat_13	Male Age >= 85	1	0.1581	0.0589	7.1919	0.0073
M_AgeCat_14	Male Age >= 90	1	0.2621	0.0857	9.3607	0.0022
F_AgeCat_6	Female Age < 55	1	-0.1412	0.0613	5.305	0.0213
F_AgeCat_8	Female Age < 65	1	-0.0451	0.0563	0.6422	0.4229
F_AgeCat_11	Female Age >= 75	1	0.262	0.0474	30.4921	<.0001
F_AgeCat_13	Female Age >= 85	1	0.193	0.0522	13.667	0.0002
F_AgeCat_14	Female Age >= 90	1	0.3205	0.0657	23.8246	<.0001
ADX021_0001	DRG 21: Craniotomy except for trauma	1	-3.2693	0.3349	95.3147	<.0001
ADX021_0002	DRG 21: Craniotomy except for trauma	1	-2.1641	0.165	172.0677	<.0001
ADX021_0004	DRG 21: Craniotomy except for trauma	1	1.8698	0.038	2419.784	<.0001
ADX022_0034	DRG 22: Ventricular shunt procedures	1	2.049	0.1026	398.7551	<.0001
ADX024_0004	DRG 24: Extracranial vascular procedures	1	1.0112	0.3611	7.8401	0.0051
ADX044_0001	DRG 44: Intracranial hemorrhage	1	-0.7657	0.0531	207.992	<.0001
ADX044_0002	DRG 44: Intracranial hemorrhage	1	-0.6411	0.0371	298.9433	<.0001
ADX044_0004	DRG 44: Intracranial hemorrhage	1	2.6598	0.0282	8909.883	<.0001

c-statistic=0.878

Table 15. Risk Adjustment Coefficients for IQI 17C - Acute Stroke Mortality Rate - Stratum C: Ischemic Stroke

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR>CHI-SQUARE
Intercept	Intercept	1	-2.5694	0.0627	1679.435	<.0001
M_AgeCat_6	Male Age < 55	1	-0.2635	0.0545	23.3898	<.0001
M_AgeCat_8	Male Age < 65	1	0.1217	0.0467	6.8032	0.0091
M_AgeCat_9	Male Age >= 65	1	0.0182	0.0426	0.1818	0.6698
M_AgeCat_11	Male Age >= 75	1	0.1671	0.0382	19.0993	<.0001
M_AgeCat_13	Male Age >= 85	1	0.2597	0.0457	32.2841	<.0001
M_AgeCat_14	Male Age >= 90	1	0.4097	0.0579	50.0963	<.0001
F_AgeCat_6	Female Age < 55	1	-0.1807	0.0669	7.3021	0.0069
F_AgeCat_8	Female Age < 65	1	0.0096	0.0539	0.0316	0.8589
F_AgeCat_11	Female Age >= 75	1	0.2281	0.0394	33.49	<.0001
F_AgeCat_13	Female Age >= 85	1	0.3089	0.036	73.5562	<.0001
F_AgeCat_14	Female Age >= 90	1	0.3859	0.0387	99.6342	<.0001
ADX021_0002	DRG 21: Craniotomy except for trauma	1	-1.185	0.5876	4.0666	0.0437
ADX021_0003	DRG 21: Craniotomy except for trauma	1	0.554	0.169	10.7441	0.001
ADX021_0004	DRG 21: Craniotomy except for trauma	1	2.0116	0.0824	596.2877	<.0001
ADX022_1234	DRG 22: Ventricular shunt procedures	1	1.6691	0.288	33.5936	<.0001
ADX024_0003	DRG 24: Extracranial vascular procedures	1	-0.3469	0.0976	12.6394	0.0004
ADX024_0004	DRG 24: Extracranial vascular procedures	1	1.5229	0.0752	410.3182	<.0001
ADX024_0012	DRG 24: Extracranial vascular procedures	1	-2.6438	0.1624	264.9732	<.0001
ADX026_0003	DRG 26: Other nervous system & related procedures	1	-1.861	0.3237	33.0601	<.0001
ADX026_0004	DRG 26: Other nervous system & related procedures	1	0.5684	0.1846	9.4834	0.0021

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PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR>CHI-SQUARE
ADX026_0012	DRG 26: Other nervous system & related procedures	1	-3.9288	0.7099	30.623	<.0001
ADX045_0001	DRG 45: CVA & precerebral occlusion w infarct	1	-3.4904	0.0839	1732.107	<.0001
ADX045_0002	DRG 45: CVA & precerebral occlusion w infarct	1	-1.9007	0.0592	1030.375	<.0001
ADX045_0003	DRG 45: CVA & precerebral occlusion w infarct	1	-0.6683	0.0581	132.174	<.0001
ADX045_0004	DRG 45: CVA & precerebral occlusion w infarct	1	1.6612	0.0565	865.5271	<.0001
ADX890_1234	DRG 890: HIV w multiple major HIV related conditions	1	0.8824	0.3691	5.7166	0.0168
TRANSFER	Transfer Status	1	0.2843	0.0287	98.3221	<.0001

c-statistic=0.886

Please note the sex|age groups are open-ended and overlap. The effect for any sex|age group can be estimated by summing the coefficients for all applicable sex|age groups. Confidence intervals and p-values for sex|age groups cannot be estimated with this risk model. The sex|age reference group is women age 65 and 74 years.

Table 16. Risk Adjustment Coefficients for IQI 18 - Gastrointestinal Hemorrhage Mortality Rate

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR>CHI-SQUARE
Intercept	Intercept	1	-4.1582	0.0582	5105.683	<.0001
M_AgeCat_6	Male Age < 55	1	-0.283	0.0586	23.2852	<.0001
M_AgeCat_8	Male Age < 65	1	0.4595	0.0562	66.9331	<.0001
M_AgeCat_9	Male Age >= 65	1	0.0902	0.0532	2.8734	0.0901
M_AgeCat_11	Male Age >= 75	1	0.0852	0.0464	3.3728	0.0663
M_AgeCat_13	Male Age >= 85	1	0.1673	0.0544	9.467	0.0021
M_AgeCat_14	Male Age >= 90	1	0.4356	0.0687	40.216	<.0001
F_AgeCat_6	Female Age < 55	1	-0.1709	0.0819	4.354	0.0369
F_AgeCat_8	Female Age < 65	1	0.2912	0.0671	18.8434	<.0001
F_AgeCat_11	Female Age >= 75	1	0.131	0.0523	6.2833	0.0122
F_AgeCat_13	Female Age >= 85	1	0.3108	0.0521	35.6331	<.0001
F_AgeCat_14	Female Age >= 90	1	0.2969	0.0575	26.7061	<.0001
ADX220_0002	DRG 220: Major stomach esophageal & duodenal procedures	1	-1.069	0.5036	4.5064	0.0338
ADX220_0003	DRG 220: Major stomach esophageal & duodenal procedures	1	0.9898	0.159	38.7522	<.0001
ADX220_0004	DRG 220: Major stomach esophageal & duodenal procedures	1	2.7152	0.0808	1128.027	<.0001
ADX221_0001	DRG 221: Major small & large bowel procedures	1	-1.9028	0.7094	7.1938	0.0073
ADX221_0002	DRG 221: Major small & large bowel procedures	1	-0.6757	0.3378	4.002	0.0454
ADX221_0003	DRG 221: Major small & large bowel procedures	1	0.5623	0.1773	10.054	0.0015
ADX221_0004	DRG 221: Major small & large bowel procedures	1	2.8064	0.0871	1037.219	<.0001
ADX222_0004	DRG 222: Other stomach esophageal & duodenal procedures	1	2.8573	0.2776	105.9507	<.0001

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PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR>CHI-SQUARE
ADX223_0004	DRG 223: Other small & large bowel procedures	1	2.5097	0.3575	49.291	<.0001
ADX224_0004	DRG 224: Peritoneal adhesiolysis	1	3.0883	0.4016	59.1253	<.0001
ADX229_0002	DRG 229: Other digestive system & abdominal procedures	1	-1.4419	0.5803	6.1734	0.013
ADX229_0004	DRG 229: Other digestive system & abdominal procedures	1	2.7581	0.1488	343.6343	<.0001
ADX241_0001	DRG 241: Peptic ulcer & gastritis	1	-4.187	0.3192	172.0717	<.0001
ADX241_0002	DRG 241: Peptic ulcer & gastritis	1	-1.9929	0.1091	333.4479	<.0001
ADX241_0003	DRG 241: Peptic ulcer & gastritis	1	-0.2096	0.0666	9.9074	0.0016
ADX241_0004	DRG 241: Peptic ulcer & gastritis	1	2.331	0.0539	1868.793	<.0001
ADX242_0002	DRG 242: Major esophageal disorders	1	-2.1313	0.3048	48.8767	<.0001
ADX242_0004	DRG 242: Major esophageal disorders	1	2.6178	0.0806	1053.985	<.0001
ADX243_0002	DRG 243: Other esophageal disorders	1	-2.0422	0.411	24.6921	<.0001
ADX243_0004	DRG 243: Other esophageal disorders	1	2.4763	0.1246	394.769	<.0001
ADX244_0001	DRG 244: Diverticulitis & diverticulosis	1	-3.7736	0.3191	139.8214	<.0001
ADX244_0002	DRG 244: Diverticulitis & diverticulosis	1	-2.3903	0.1604	222.0193	<.0001
ADX244_0003	DRG 244: Diverticulitis & diverticulosis	1	-0.5749	0.1017	31.9733	<.0001
ADX244_0004	DRG 244: Diverticulitis & diverticulosis	1	1.9348	0.0883	479.67	<.0001
ADX253_0001	DRG 253: Other & unspecified gastrointestinal hemorrhage	1	-2.4891	0.127	383.9728	<.0001
ADX253_0002	DRG 253: Other & unspecified gastrointestinal hemorrhage	1	-0.9827	0.0613	257.3358	<.0001
ADX253_0003	DRG 253: Other & unspecified gastrointestinal hemorrhage	1	0.5174	0.0499	107.4274	<.0001
ADX253_0004	DRG 253: Other & unspecified gastrointestinal hemorrhage	1	2.9109	0.0489	3546.858	<.0001
ADX254_0001	DRG 254: Other digestive system diagnoses	1	-3.1516	0.3361	87.8997	<.0001
ADX254_0002	DRG 254: Other digestive system diagnoses	1	-1.3836	0.1263	119.9584	<.0001

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PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR>CHI-SQUARE
ADX254_0004	DRG 254: Other digestive system diagnoses	1	2.7451	0.074	1375.197	<.0001
TRNSFER	Transfer Status	1	0.2202	0.0461	22.8457	<.0001

c-statistic=0.893

Please note the sex|age groups are open-ended and overlap. The effect for any sex|age group can be estimated by summing the coefficients for all applicable sex|age groups. Confidence intervals and p-values for sex|age groups cannot be estimated with this risk model. The sex| age reference group is women age 65 and 74 years.

Table 17. Risk Adjustment Coefficients for IQI 19 - Hip Fracture Mortality Rate

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR>CHI-SQUARE
Intercept	Intercept	1	-2.768	0.1673	273.8276	<.0001
M_AgeCat_9	Male Age >= 65	1	0.2579	0.1024	6.3442	0.0118
M_AgeCat_11	Male Age >= 75	1	0.3529	0.0844	17.4922	<.0001
M_AgeCat_13	Male Age >= 85	1	0.23	0.0648	12.6087	0.0004
M_AgeCat_14	Male Age >= 90	1	0.1548	0.0687	5.085	0.0241
F_AgeCat_11	Female Age >= 75	1	0.2472	0.0826	8.9482	0.0028
F_AgeCat_13	Female Age >= 85	1	0.2759	0.0561	24.2197	<.0001
F_AgeCat_14	Female Age >= 90	1	0.2319	0.0527	19.3321	<.0001
ADX301_0001	DRG 301: Hip joint replacement	1	-4.6216	0.2935	247.9822	<.0001
ADX301_0002	DRG 301: Hip joint replacement	1	-3.1211	0.1749	318.5941	<.0001
ADX301_0003	DRG 301: Hip joint replacement	1	-1.5465	0.1619	91.26	<.0001
ADX301_0004	DRG 301: Hip joint replacement	1	0.6334	0.1591	15.8481	<.0001
ADX308_0001	DRG 308: Hip & femur procedures for trauma except joint replacement	1	-4.7947	0.259	342.6956	<.0001
ADX308_0002	DRG 308: Hip & femur procedures for trauma except joint replacement	1	-3.4269	0.171	401.5583	<.0001
ADX308_0003	DRG 308: Hip & femur procedures for trauma except joint replacement	1	-1.5247	0.1589	92.0287	<.0001
ADX308_0004	DRG 308: Hip & femur procedures for trauma except joint replacement	1	0.856	0.1572	29.6315	<.0001
ADX340_0001	DRG 340: Fracture of femur	1	-1.7663	0.2229	62.7741	<.0001
ADX340_0002	DRG 340: Fracture of femur	1	-1.0059	0.1699	35.0399	<.0001
ADX340_0003	DRG 340: Fracture of femur	1	0.3929	0.163	5.8138	0.0159
ADX340_0004	DRG 340: Fracture of femur	1	2.2385	0.1668	180.1409	<.0001

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PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR>CHI-SQUARE
ADX911_1234	DRG 911: Extensive abdominal/thoracic procedures for mult significant trauma	1	1.4994	0.412	13.2404	0.0003
ADX912_0001	DRG 912: Musculoskeletal & other procedures for multiple significant trauma	1	-3.6582	1.013	13.0396	0.0003
ADX912_0002	DRG 912: Musculoskeletal & other procedures for multiple significant trauma	1	-2.5304	0.3015	70.4383	<.0001
ADX912_0003	DRG 912: Musculoskeletal & other procedures for multiple significant trauma	1	-1.0063	0.2091	23.1691	<.0001
ADX912_0004	DRG 912: Musculoskeletal & other procedures for multiple significant trauma	1	1.106	0.191	33.5368	<.0001
ADX930_0002	DRG 930: Multiple significant trauma w/o O.R. procedure	1	-0.7349	0.3341	4.8387	0.0278
ADX930_0003	DRG 930: Multiple significant trauma w/o O.R. procedure	1	0.6407	0.2547	6.3263	0.0119
ADX930_0004	DRG 930: Multiple significant trauma w/o O.R. procedure	1	2.3602	0.2789	71.618	<.0001
TRNSFER	Transfer Status	1	0.1211	0.0659	3.3763	0.0661
Intercept	Intercept	1	-2.768	0.1673	273.8276	<.0001
M_AgeCat_9	Male Age >= 65	1	0.2579	0.1024	6.3442	0.0118
M_AgeCat_11	Male Age >= 75	1	0.3529	0.0844	17.4922	<.0001
M_AgeCat_13	Male Age >= 85	1	0.23	0.0648	12.6087	0.0004
M_AgeCat_14	Male Age >= 90	1	0.1548	0.0687	5.085	0.0241
F_AgeCat_11	Female Age >= 75	1	0.2472	0.0826	8.9482	0.0028
F_AgeCat_13	Female Age >= 85	1	0.2759	0.0561	24.2197	<.0001
F_AgeCat_14	Female Age >= 90	1	0.2319	0.0527	19.3321	<.0001
ADX301_0001	DRG 301: Hip joint replacement	1	-4.6216	0.2935	247.9822	<.0001
ADX301_0002	DRG 301: Hip joint replacement	1	-3.1211	0.1749	318.5941	<.0001
ADX301_0003	DRG 301: Hip joint replacement	1	-1.5465	0.1619	91.26	<.0001
ADX301_0004	DRG 301: Hip joint replacement	1	0.6334	0.1591	15.8481	<.0001

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PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR>CHI-SQUARE
ADX308_0001	DRG 308: Hip & femur procedures for trauma except joint replacement	1	-4.7947	0.259	342.6956	<.0001
ADX308_0002	DRG 308: Hip & femur procedures for trauma except joint replacement	1	-3.4269	0.171	401.5583	<.0001
ADX308_0003	DRG 308: Hip & femur procedures for trauma except joint replacement	1	-1.5247	0.1589	92.0287	<.0001
ADX308_0004	DRG 308: Hip & femur procedures for trauma except joint replacement	1	0.856	0.1572	29.6315	<.0001
ADX340_0001	DRG 340: Fracture of femur	1	-1.7663	0.2229	62.7741	<.0001
ADX340_0002	DRG 340: Fracture of femur	1	-1.0059	0.1699	35.0399	<.0001
ADX340_0003	DRG 340: Fracture of femur	1	0.3929	0.163	5.8138	0.0159
ADX340_0004	DRG 340: Fracture of femur	1	2.2385	0.1668	180.1409	<.0001
ADX911_1234	DRG 911: Extensive abdominal/thoracic procedures for mult significant trauma	1	1.4994	0.412	13.2404	0.0003
ADX912_0001	DRG 912: Musculoskeletal & other procedures for multiple significant trauma	1	-3.6582	1.013	13.0396	0.0003
ADX912_0002	DRG 912: Musculoskeletal & other procedures for multiple significant trauma	1	-2.5304	0.3015	70.4383	<.0001
ADX912_0003	DRG 912: Musculoskeletal & other procedures for multiple significant trauma	1	-1.0063	0.2091	23.1691	<.0001
ADX912_0004	DRG 912: Musculoskeletal & other procedures for multiple significant trauma	1	1.106	0.191	33.5368	<.0001
ADX930_0002	DRG 930: Multiple significant trauma w/o O.R. procedure	1	-0.7349	0.3341	4.8387	0.0278
ADX930_0003	DRG 930: Multiple significant trauma w/o O.R. procedure	1	0.6407	0.2547	6.3263	0.0119
ADX930_0004	DRG 930: Multiple significant trauma w/o O.R. procedure	1	2.3602	0.2789	71.618	<.0001
TRNSFER	Transfer Status	1	0.1211	0.0659	3.3763	0.0661

c-statistic=0.899

Table 18. Risk Adjustment Coefficients for IQI 20 - Pneumonia Mortality Rate

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR>CHI-SQUARE
Intercept	Intercept	1	-2.8244	0.0452	3898.002	<.0001
M_AgeCat_6	Male Age < 55	1	-0.542	0.0486	124.5623	<.0001
M_AgeCat_8	Male Age < 65	1	0.1036	0.0394	6.9137	0.0086
M_AgeCat_9	Male Age >= 65	1	0.1554	0.0334	21.6089	<.0001
M_AgeCat_11	Male Age >= 75	1	0.2175	0.0292	55.5803	<.0001
M_AgeCat_13	Male Age >= 85	1	0.2267	0.0322	49.7257	<.0001
M_AgeCat_14	Male Age >= 90	1	0.2284	0.0394	33.5357	<.0001
F_AgeCat_6	Female Age < 55	1	-0.4426	0.0524	71.4312	<.0001
F_AgeCat_8	Female Age < 65	1	-0.0537	0.0421	1.6265	0.2022
F_AgeCat_11	Female Age >= 75	1	0.2665	0.0317	70.5902	<.0001
F_AgeCat_13	Female Age >= 85	1	0.2662	0.0312	72.7603	<.0001
F_AgeCat_14	Female Age >= 90	1	0.3666	0.033	123.4275	<.0001
ADX120_0002	DRG 120: Major respiratory & chest procedures	1	-1.8488	0.382	23.4258	<.0001
ADX121_0002	DRG 121: Other respiratory & chest procedures	1	-2.3921	0.7101	11.3466	0.0008
ADX121_0003	DRG 121: Other respiratory & chest procedures	1	-0.2668	0.1753	2.3155	0.1281
ADX121_0004	DRG 121: Other respiratory & chest procedures	1	1.9186	0.1072	320.0835	<.0001
ADX130_0001	DRG 130: Respiratory system diagnosis w ventilator support 96+ hours	1	0.7324	0.2139	11.7209	0.0006
ADX130_0002	DRG 130: Respiratory system diagnosis w ventilator support 96+ hours	1	0.9517	0.0996	91.2465	<.0001
ADX130_0003	DRG 130: Respiratory system diagnosis w ventilator support 96+ hours	1	1.5458	0.0554	777.5611	<.0001
ADX130_0004	DRG 130: Respiratory system diagnosis w ventilator support 96+ hours	1	2.5419	0.052	2387.874	<.0001

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PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR>CHI-SQUARE
ADX131_0003	DRG 131: Cystic fibrosis - pulmonary disease	1	-1.0355	0.3384	9.3624	0.0022
ADX131_0004	DRG 131: Cystic fibrosis - pulmonary disease	1	2.2658	0.3623	39.1103	<.0001
ADX137_0001	DRG 137: Major respiratory infections & inflammations	1	-3.9229	0.4102	91.441	<.0001
ADX137_0002	DRG 137: Major respiratory infections & inflammations	1	-2.4937	0.1119	496.4935	<.0001
ADX137_0003	DRG 137: Major respiratory infections & inflammations	1	-0.8175	0.0555	216.7179	<.0001
ADX137_0004	DRG 137: Major respiratory infections & inflammations	1	0.7177	0.0511	197.4797	<.0001
ADX138_0003	DRG 138: Bronchiolitis & RSV pneumonia	1	-1.04	0.3236	10.3258	0.0013
ADX138_0004	DRG 138: Bronchiolitis & RSV pneumonia	1	0.7463	0.2474	9.0971	0.0026
ADX139_0001	DRG 139: Other pneumonia	1	-3.8789	0.0908	1824.739	<.0001
ADX139_0002	DRG 139: Other pneumonia	1	-2.0406	0.0439	2163.919	<.0001
ADX139_0003	DRG 139: Other pneumonia	1	-0.6896	0.0404	291.465	<.0001
ADX139_0004	DRG 139: Other pneumonia	1	0.9526	0.0408	546.2938	<.0001
ADX710_1234	DRG 710: Infectious & parasitic diseases including HIV w O.R. procedure	1	0.9928	0.3787	6.8736	0.0087
ADX890_0004	DRG 890: HIV w multiple major HIV related conditions	1	1.2314	0.2364	27.1379	<.0001
ADX892_0004	DRG 892: HIV w major HIV related condition	1	1.2214	0.4465	7.4813	0.0062
TRANSFER	Transfer Status	1	0.4191	0.0359	136.0676	<.0001

c-statistic=0.847

Please note the sex|age groups are open-ended and overlap. The effect for any sex|age group can be estimated by summing the coefficients for all applicable sex|age groups. Confidence intervals and p-values for sex|age groups cannot be estimated with this risk model. The sex|age reference group is women age 65 and 74 years.

Table 19. Risk Adjustment Coefficients for IQI 30 - Percutaneous Coronary Intervention (PCI) Mortality Rate

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR>CHI-SQUARE
Intercept	Intercept	1	-3.006	0.0852	1243.436	<.0001
M_AgeCat_6	Male Age < 55	1	-0.229	0.0527	18.8532	<.0001
M_AgeCat_8	Male Age < 65	1	-0.1627	0.0481	11.4285	0.0007
M_AgeCat_9	Male Age >= 65	1	-0.0921	0.0462	3.9783	0.0461
M_AgeCat_11	Male Age >= 75	1	0.2656	0.0417	40.6311	<.0001
M_AgeCat_13	Male Age >= 85	1	0.2295	0.064	12.8424	0.0003
M_AgeCat_14	Male Age >= 90	1	0.1785	0.1141	2.449	0.1176
F_AgeCat_6	Female Age < 55	1	-0.2044	0.0861	5.634	0.0176
F_AgeCat_8	Female Age < 65	1	-0.1261	0.0606	4.3305	0.0374
F_AgeCat_11	Female Age >= 75	1	0.1799	0.0503	12.7643	0.0004
F_AgeCat_13	Female Age >= 85	1	0.3345	0.0636	27.6331	<.0001
F_AgeCat_14	Female Age >= 90	1	0.3427	0.0958	12.7824	0.0003
MDC_1	MDC 1: Diseases & Disorders Of The Nervous System	1	0.1972	0.1552	1.6144	0.2039
MDC_3	MDC 3: Diseases & Disorders Of The Ear Nose Mouth & Throat	1	0.9098	0.3628	6.2892	0.0121
MDC_4	MDC 4: Diseases & Disorders Of The Respiratory System	1	0.6152	0.1063	33.4843	<.0001
MDC_5	MDC 5: Diseases & Disorders Of The Circulatory System	1	1.7188	0.1006	291.9149	<.0001
MDC_6	MDC 6: Diseases & Disorders Of The Digestive System	1	0.2933	0.1596	3.3764	0.0661
MDC_17	MDC 17: Myeloproliferative Diseases & Disorders Poorly Differentiated Neoplasm	1	1.2444	0.3692	11.3625	0.0007
MDC_18	MDC 18: Infectious & Parasitic Diseases Systemic Or Unspecified Sites	1	1.2987	0.1049	153.3995	<.0001
MDC_24	MDC 24: Multiple Significant Trauma	1	1.5529	0.4071	14.5513	0.0001

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PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR>CHI-SQUARE
ADX024_0004	DRG 24: Extracranial vascular procedures	1	0.7685	0.4253	3.2649	0.0708
ADX121_1234	DRG 121: Other respiratory & chest procedures	1	1.6813	0.3343	25.2908	<.0001
ADX161_0001	DRG 161: Cardiac defibrillator & heart assist implant	1	-3.0197	0.5846	26.6802	<.0001
ADX161_0002	DRG 161: Cardiac defibrillator & heart assist implant	1	-2.7029	0.2773	95.0278	<.0001
ADX161_0003	DRG 161: Cardiac defibrillator & heart assist implant	1	-1.6873	0.1401	145.0141	<.0001
ADX161_0004	DRG 161: Cardiac defibrillator & heart assist implant	1	0.5536	0.0823	45.2666	<.0001
ADX162_0003	DRG 162: Cardiac valve procedures w cardiac catheterization	1	-1.9488	0.4622	17.7777	<.0001
ADX162_0012	DRG 162: Cardiac valve procedures w cardiac catheterization	1	-3.0545	1.0097	9.1507	0.0025
ADX163_1234	DRG 163: Cardiac valve procedures w/o cardiac catheterization	1	-0.9879	0.3593	7.5607	0.006
ADX165_0002	DRG 165: Coronary bypass w cardiac cath or percutaneous cardiac procedure	1	-4.3508	0.4525	92.4614	<.0001
ADX165_0003	DRG 165: Coronary bypass w cardiac cath or percutaneous cardiac procedure	1	-2.7667	0.2042	183.5179	<.0001
ADX165_0004	DRG 165: Coronary bypass w cardiac cath or percutaneous cardiac procedure	1	-0.5257	0.1094	23.0959	<.0001
ADX167_0123	DRG 167: Other cardiothoracic procedures	1	-0.8774	0.4775	3.3766	0.0661
ADX169_0002	DRG 169: Major thoracic & abdominal vascular procedures	1	-2.4714	0.7198	11.7887	0.0006
ADX169_0003	DRG 169: Major thoracic & abdominal vascular procedures	1	-1.9277	0.5151	14.0043	0.0002
ADX169_0004	DRG 169: Major thoracic & abdominal vascular procedures	1	0.3882	0.2241	2.9998	0.0833
ADX174_0001	DRG 174: Percutaneous cardiovascular procedures w AMI	1	-5.4913	0.1243	1951.329	<.0001
ADX174_0002	DRG 174: Percutaneous cardiovascular procedures w AMI	1	-4.2405	0.089	2272.419	<.0001
ADX174_0003	DRG 174: Percutaneous cardiovascular procedures w AMI	1	-2.4884	0.0751	1097.685	<.0001

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PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR>CHI-SQUARE
ADX174_0004	DRG 174: Percutaneous cardiovascular procedures w AMI	1	0.0684	0.0661	1.0707	0.3008
ADX175_0001	DRG 175: Percutaneous cardiovascular procedures w/o AMI	1	-8.192	0.4517	328.8768	<.0001
ADX175_0002	DRG 175: Percutaneous cardiovascular procedures w/o AMI	1	-5.813	0.1688	1185.249	<.0001
ADX175_0003	DRG 175: Percutaneous cardiovascular procedures w/o AMI	1	-3.6836	0.1043	1247.268	<.0001
ADX175_0004	DRG 175: Percutaneous cardiovascular procedures w/o AMI	1	-0.6304	0.0738	72.9546	<.0001
ADX220_1234	DRG 220: Major stomach esophageal & duodenal procedures	1	0.9245	0.4316	4.5884	0.0322
ADX221_0004	DRG 221: Major small & large bowel procedures	1	1.018	0.2669	14.5427	0.0001
ADX263_0004	DRG 263: Laparoscopic cholecystectomy	1	1.0286	0.5401	3.6261	0.0569
ADX301_0004	DRG 301: Hip joint replacement	1	1.1225	0.3242	11.9903	0.0005
ADX302_0004	DRG 302: Knee joint replacement	1	0.984	0.4429	4.9357	0.0263
ADX304_0004	DRG 304: Dorsal & lumbar fusion proc except for curvature of back	1	1.7054	0.4363	15.275	<.0001
ADX308_0004	DRG 308: Hip & femur procedures for trauma except joint replacement	1	1.6757	0.2864	34.235	<.0001
ADX447_0004	DRG 447: Other kidney urinary tract & related procedures	1	1.2092	0.4003	9.1263	0.0025
ADX710_0003	DRG 710: Infectious & parasitic diseases including HIV w O.R. procedure	1	-2.0716	0.3277	39.96	<.0001

c-statistic=0.941

Table 20. Risk Adjustment Coefficients for IQI 31 - Carotid Endarterectomy Mortality Rate

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR>CHI-SQUARE
Intercept	Intercept	1	-4.4785	0.2306	377.0275	<.0001
M_AgeCat_8	Male Age < 65	1	-0.2537	0.2315	1.2015	0.273
M_AgeCat_9	Male Age >= 65	1	-0.1511	0.1996	0.5733	0.4489
M_AgeCat_11	Male Age >= 75	1	0.1118	0.1984	0.3173	0.5733
M_AgeCat_13	Male Age >= 85	1	0.9847	0.2597	14.3814	0.0001
F_AgeCat_8	Female Age < 65	1	-0.3575	0.2663	1.8029	0.1794
F_AgeCat_11	Female Age >= 75	1	0.2387	0.2191	1.1865	0.276
F_AgeCat_13	Female Age >= 85	1	0.2786	0.3179	0.7682	0.3808
MDC_1	MDC 1: Diseases & Disorders Of The Nervous System	1	-1.1199	0.2018	30.7964	<.0001
MDC_18	MDC 18: Infectious & Parasitic Diseases Systemic Or Unspecified Sites	1	2.1845	0.4685	21.7449	<.0001
ADX021_1234	DRG 21: Craniotomy except for trauma	1	4.8922	0.2992	267.325	<.0001
ADX024_0002	DRG 24: Extracranial vascular procedures	1	-2.0874	0.3282	40.4575	<.0001
ADX024_0003	DRG 24: Extracranial vascular procedures	1	0.7999	0.1859	18.513	<.0001
ADX162_0034	DRG 162: Cardiac valve procedures w cardiac catheterization	1	1.478	0.5474	7.2894	0.0069
ADX163_0004	DRG 163: Cardiac valve procedures w/o cardiac catheterization	1	2.576	0.5148	25.0341	<.0001
ADX165_0004	DRG 165: Coronary bypass w cardiac cath or percutaneous cardiac procedure	1	2.6413	0.3428	59.3653	<.0001
ADX166_0004	DRG 166: Coronary bypass w/o cardiac cath or percutaneous cardiac procedure	1	2.7474	0.4265	41.5045	<.0001
ADX169_0034	DRG 169: Major thoracic & abdominal vascular procedures	1	2.9064	0.4857	35.8029	<.0001
ADX173_0004	DRG 173: Other vascular procedures	1	2.3794	0.421	31.9457	<.0001

c-statistic=0.791

Table 21. Risk Adjustment Coefficients for IQI 32 - Acute Myocardial Infarction (AMI) Mortality Rate, Without Transfer Cases

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR>CHI-SQUARE
Intercept	Intercept	1	-4.0535	0.4613	77.2133	<.0001
M_AgeCat_6	Male Age < 55	1	-0.2416	0.0438	30.4813	<.0001
M_AgeCat_8	Male Age < 65	1	0.0911	0.0389	5.4708	0.0193
M_AgeCat_9	Male Age >= 65	1	0.1019	0.0366	7.753	0.0054
M_AgeCat_11	Male Age >= 75	1	0.1649	0.0312	27.9904	<.0001
M_AgeCat_13	Male Age >= 85	1	0.1213	0.0376	10.4068	0.0013
M_AgeCat_14	Male Age >= 90	1	0.124	0.0472	6.8985	0.0086
F_AgeCat_6	Female Age < 55	1	-0.1916	0.0668	8.2238	0.0041
F_AgeCat_8	Female Age < 65	1	-0.0284	0.0481	0.3493	0.5545
F_AgeCat_11	Female Age >= 75	1	0.1217	0.037	10.8163	0.001
F_AgeCat_13	Female Age >= 85	1	0.1133	0.037	9.3979	0.0022
F_AgeCat_14	Female Age >= 90	1	0.2762	0.0393	49.3876	<.0001
MDC_5	MDC 5: Diseases & Disorders Of The Circulatory System	1	2.2499	0.4585	24.0766	<.0001
ADX161_0002	DRG 161: Cardiac defibrillator & heart assist implant	1	-1.2385	0.2599	22.7046	<.0001
ADX161_0003	DRG 161: Cardiac defibrillator & heart assist implant	1	-1.1583	0.1489	60.5124	<.0001
ADX161_0004	DRG 161: Cardiac defibrillator & heart assist implant	1	0.7793	0.0714	119.068	<.0001
ADX162_0003	DRG 162: Cardiac valve procedures w cardiac catheterization	1	-1.6273	0.2438	44.5624	<.0001
ADX162_0012	DRG 162: Cardiac valve procedures w cardiac catheterization	1	-4.0817	1.0024	16.5795	<.0001

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PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR>CHI-SQUARE
ADX163_0003	DRG 163: Cardiac valve procedures w/o cardiac catheterization	1	-1.9968	0.7174	7.7466	0.0054
ADX163_0004	DRG 163: Cardiac valve procedures w/o cardiac catheterization	1	0.4624	0.2647	3.0514	0.0807
ADX165_0003	DRG 165: Coronary bypass w cardiac cath or percutaneous cardiac procedure	1	-2.4558	0.1024	575.2901	<.0001
ADX165_0004	DRG 165: Coronary bypass w cardiac cath or percutaneous cardiac procedure	1	-0.4611	0.0664	48.2016	<.0001
ADX165_0012	DRG 165: Coronary bypass w cardiac cath or percutaneous cardiac procedure	1	-4.1012	0.1908	461.88	<.0001
ADX166_0003	DRG 166: Coronary bypass w/o cardiac cath or percutaneous cardiac procedure	1	-2.6919	0.3583	56.4579	<.0001
ADX166_0012	DRG 166: Coronary bypass w/o cardiac cath or percutaneous cardiac procedure	1	-4.5803	0.709	41.7311	<.0001
ADX169_0004	DRG 169: Major thoracic & abdominal vascular procedures	1	1.0544	0.2615	16.261	<.0001
ADX170_0003	DRG 170: Permanent cardiac pacemaker implant w AMI heart failure or shock	1	-2.1181	0.2955	51.3636	<.0001
ADX173_0003	DRG 173: Other vascular procedures	1	-1.253	0.228	30.2082	<.0001
ADX173_0004	DRG 173: Other vascular procedures	1	0.8353	0.1711	23.836	<.0001
ADX173_0012	DRG 173: Other vascular procedures	1	-1.2714	0.5929	4.5977	0.032
ADX174_0001	DRG 174: Percutaneous cardiovascular procedures w AMI	1	-5.1116	0.124	1697.864	<.0001
ADX174_0002	DRG 174: Percutaneous cardiovascular procedures w AMI	1	-3.7412	0.0779	2308.127	<.0001
ADX174_0003	DRG 174: Percutaneous cardiovascular procedures w AMI	1	-1.9681	0.0596	1089.139	<.0001
ADX174_0004	DRG 174: Percutaneous cardiovascular procedures w AMI	1	0.5072	0.0463	120.2301	<.0001
ADX175_0001	DRG 175: Percutaneous cardiovascular procedures w/o AMI	1	-4.2098	1.0022	17.6444	<.0001
ADX175_0002	DRG 175: Percutaneous cardiovascular procedures w/o AMI	1	-2.3092	0.584	15.6346	<.0001
ADX175_0003	DRG 175: Percutaneous cardiovascular procedures w/o AMI	1	-1.0721	0.4235	6.4093	0.0114

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PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR>CHI-SQUARE
ADX175_0004	DRG 175: Percutaneous cardiovascular procedures w/o AMI	1	0.7627	0.2821	7.3103	0.0069
ADX180_0003	DRG 180: Other circulatory system procedures	1	-1.0272	0.3469	8.7691	0.0031
ADX180_0012	DRG 180: Other circulatory system procedures	1	-1.9462	0.7176	7.3546	0.0067
ADX190_0001	DRG 190: Acute myocardial infarction	1	-3.9507	0.1354	851.5687	<.0001
ADX190_0002	DRG 190: Acute myocardial infarction	1	-2.5476	0.0647	1551.672	<.0001
ADX190_0003	DRG 190: Acute myocardial infarction	1	-1.1128	0.0456	594.3579	<.0001
ADX190_0004	DRG 190: Acute myocardial infarction	1	0.9657	0.0448	464.5727	<.0001
ADX191_0002	DRG 191: Cardiac catheterization w circ disord exc ischemic heart disease	1	-2.8446	1.0061	7.9941	0.0047
ADX198_0001	DRG 198: Angina pectoris & coronary atherosclerosis	1	-0.9144	0.3696	6.1214	0.0134
ADX198_0002	DRG 198: Angina pectoris & coronary atherosclerosis	1	-0.8193	0.2377	11.8831	0.0006
ADX198_0004	DRG 198: Angina pectoris & coronary atherosclerosis	1	1.5405	0.2149	51.4019	<.0001

c-statistic=0.888

Please note the sex|age groups are open-ended and overlap. The effect for any sex|age group can be estimated by summing the coefficients for all applicable sex|age groups. Confidence intervals and p-values for sex|age groups cannot be estimated with this risk model. The sex| age reference group is women age 65 and 74 years.

Table 22. Risk Adjustment Coefficients for IQI 26 - Coronary Artery Bypass Graft (CABG) Rate

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR>CHI-SQUARE
INTERCEPT		1	-5.7851	0.0069	706507.6698	<.0001
SEX	Female	1	-1.1896	0.0137	7588.6672	<.0001
AGE	Male Age 40-44	1	-2.7915	0.0236	13940.1297	<.0001
AGE	Male Age 45-49	1	-1.9771	0.0165	14425.2147	<.0001
AGE	Male Age 50-54	1	-1.3266	0.0126	11125.9138	<.0001
AGE	Male Age 55-59	1	-0.8148	0.0109	5578.5963	<.0001
AGE	Male Age 60-64	1	-0.4016	0.0102	1555.8087	<.0001
AGE	Male Age 70-74	1	0.1585	0.0102	240.1259	<.0001
AGE	Male Age 75-79	1	0.2765	0.0110	633.3173	<.0001
AGE	Male Age 80-84	1	0.1255	0.0130	93.0083	<.0001
AGE	Male Age 85+	1	-0.8465	0.0205	1706.5572	<.0001
AGE	Female Age 40-44	1	0.0576	0.0476	1.4682	0.2256
AGE	Female Age 45-49	1	0.0036	0.0336	0.0115	0.9146
AGE	Female Age 50-54	1	-0.1248	0.0263	22.4396	<.0001
AGE	Female Age 55-59	1	-0.1584	0.0227	48.4909	<.0001
AGE	Female Age 60-64	1	-0.0953	0.0207	21.1863	<.0001
AGE	Female Age 70-74	1	0.1078	0.0197	29.9939	<.0001
AGE	Female Age 75-79	1	0.1817	0.0204	78.9982	<.0001
AGE	Female Age 80-84	1	0.1338	0.0235	32.4748	<.0001
AGE	Female Age 85+	1	-0.0845	0.0352	5.7624	0.0164

c-statistic=0.587

Please note the sex|age groups are open-ended and overlap. The effect for any sex|age group can be estimated by summing the coefficients for all applicable sex|age groups. Confidence intervals and p-values for sex|age groups cannot be estimated with this risk model. The sex|age reference group is women age 65 and 74 years.

Table 23. Risk Adjustment Coefficients for IQI 27 - Percutaneous Coronary Intervention (PCI) Rate

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR>CHI-SQUARE
INTERCEPT		1	-5.1976	0.0051	1021265.5151	<.0001
SEX	Female	1	-0.8489	0.0090	8831.3582	<.0001
AGE	Male Age 40-44	1	-1.7819	0.0114	24387.4393	<.0001
AGE	Male Age 45-49	1	-1.1756	0.0091	16784.3806	<.0001
AGE	Male Age 50-54	1	-0.7107	0.0077	8441.7114	<.0001
AGE	Male Age 55-59	1	-0.4313	0.0073	3463.4002	<.0001
AGE	Male Age 60-64	1	-0.2124	0.0072	859.9865	<.0001
AGE	Male Age 70-74	1	0.1422	0.0077	342.6354	<.0001
AGE	Male Age 75-79	1	0.2393	0.0083	830.1627	<.0001
AGE	Male Age 80-84	1	0.2513	0.0093	728.6798	<.0001
AGE	Male Age 85+	1	-0.0253	0.0109	5.3983	0.0202
AGE	Female Age 40-44	1	-0.2863	0.0224	162.8436	<.0001
AGE	Female Age 45-49	1	-0.2616	0.0174	225.5335	<.0001
AGE	Female Age 50-54	1	-0.2928	0.0147	398.1599	<.0001
AGE	Female Age 55-59	1	-0.2457	0.0136	325.9188	<.0001
AGE	Female Age 60-64	1	-0.1345	0.0131	105.7634	<.0001
AGE	Female Age 70-74	1	0.0896	0.0132	46.4681	<.0001
AGE	Female Age 75-79	1	0.1939	0.0137	199.4917	<.0001
AGE	Female Age 80-84	1	0.2593	0.0147	309.9849	<.0001
AGE	Female Age 85+	1	0.2202	0.0162	185.8595	<.0001

c-statistic=0.534

Table 24. Risk Adjustment Coefficients for IQI 28 - Hysterectomy Rate

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR>CHI-SQUARE
INTERCEPT		1	-6.9130	0.0114	365367.3140	<.0001
AGE	Male Age 18-24	1	-3.3852	0.0471	5165.7427	<.0001
AGE	Male Age 25-29	1	-1.2464	0.0214	3383.0233	<.0001
AGE	Male Age 30-34	1	-0.1039	0.0154	45.7563	<.0001
AGE	Male Age 35-39	1	0.7066	0.0135	2753.4350	<.0001
AGE	Male Age 40-44	1	1.2438	0.0126	9757.4732	<.0001
AGE	Male Age 45-49	1	1.2938	0.0125	10685.6808	<.0001
AGE	Male Age 50-54	1	0.7037	0.0132	2843.1452	<.0001
AGE	Male Age 55-59	1	0.0297	0.0148	4.0117	0.0452
AGE	Male Age 60-64	1	-0.1223	0.0158	59.5981	<.0001
AGE	Male Age 70-74	1	-0.1344	0.0182	54.4375	<.0001
AGE	Male Age 75-79	1	-0.3813	0.0218	306.7128	<.0001
AGE	Male Age 80-84	1	-0.9287	0.0297	980.5522	<.0001
AGE	Male Age 85+	1	-2.1192	0.0472	2016.1753	<.0001
AGE	Male Age 40-44	1	-6.9130	0.0114	365367.3140	<.0001

c-statistic=0.624

Please note the sex|age groups are open-ended and overlap. The effect for any sex|age group can be estimated by summing the coefficients for all applicable sex|age groups. Confidence intervals and p-values for sex|age groups cannot be estimated with this risk model. The sex|age reference group is women age 65 and 74 years.

Table 25. Risk Adjustment Coefficients for IQI 29 - Laminectomy or Spinal Fusion Rate

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR>CHI-SQUARE
INTERCEPT		1	-5.4360	0.0058	882188.5522	<.0001
SEX	Female	1	-0.0325	0.0080	16.4073	<.0001
AGE	Male Age 18-24	1	-2.8625	0.0174	27020.4728	<.0001
AGE	Male Age 25-29	1	-2.4442	0.0166	21713.2499	<.0001
AGE	Male Age 30-34	1	-1.8221	0.0129	19934.9912	<.0001
AGE	Male Age 35-39	1	-1.3520	0.0111	14709.2122	<.0001
AGE	Male Age 40-44	1	-1.0341	0.0098	11150.1505	<.0001
AGE	Male Age 45-49	1	-0.7776	0.0090	7449.1450	<.0001
AGE	Male Age 50-54	1	-0.5629	0.0084	4525.0345	<.0001
AGE	Male Age 55-59	1	-0.3904	0.0082	2285.9808	<.0001
AGE	Male Age 60-64	1	-0.2586	0.0082	983.3091	<.0001
AGE	Male Age 70-74	1	0.1314	0.0087	229.7884	<.0001
AGE	Male Age 75-79	1	0.1114	0.0097	131.1433	<.0001
AGE	Male Age 80-84	1	-0.1689	0.0122	191.5286	<.0001
AGE	Male Age 85+	1	-0.8870	0.0175	2559.9001	<.0001
AGE	Female Age 18-24	1	-0.0529	0.0253	4.3595	0.0368
AGE	Female Age 25-29	1	-0.0066	0.0238	0.0775	0.7807
AGE	Female Age 30-34	1	-0.0005	0.0183	0.0008	0.9778
AGE	Female Age 35-39	1	0.0262	0.0157	2.7806	0.0954
AGE	Female Age 40-44	1	0.0686	0.0137	25.2519	<.0001
AGE	Female Age 45-49	1	0.0898	0.0125	51.6317	<.0001
AGE	Female Age 50-54	1	0.0387	0.0117	10.9957	0.0009

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PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR>CHI-SQUARE
AGE	Female Age 55-59	1	-0.0573	0.0115	24.9192	<.0001
AGE	Female Age 60-64	1	-0.0679	0.0116	34.3776	<.0001
AGE	Female Age 70-74	1	-0.0661	0.0121	30.0635	<.0001
AGE	Female Age 75-79	1	-0.1336	0.0135	97.7206	<.0001
AGE	Female Age 80-84	1	-0.2999	0.0171	307.8818	<.0001
AGE	Female Age 85+	1	-0.5745	0.0244	554.6770	<.0001

c-statistic=0.555

Please note the sex|age groups are open-ended and overlap. The effect for any sex|age group can be estimated by summing the coefficients for all applicable sex|age groups. Confidence intervals and p-values for sex|age groups cannot be estimated with this risk model. The sex|age reference group is women age 65 and 74 years.

Composite Weights

The IQI #91 composite measure was endorsed by NQF in 2009. The other composite measure – IQI #90 – was not endorsed because of the relatively small number of hospitals that perform most of these procedures, the heterogeneity in the relative frequency of procedures performed at these hospitals, and the elective nature of the procedures. In turn, IQI #90 has since been retired from IQR.

To utilize the NQF endorsed composite, users must use these “NQF Denominator Weights” when using the AHRQ QI software to compute the composite measure using their own data. Table 20 provides the NQF weights for the composite measure. The sum of the weights for the indicators included in the same composite always equals one.

Table 26. NQF Denominator Weights for IQI 90

INDICATOR	WEIGHT
IQI 08 Esophageal Resection Mortality Rate	0.0035
IQI 09 Pancreatic Resection Mortality Rate	0.0132
IQI 11 Abdominal Aortic Aneurism (AAA) Repair Mortality Rate	0.0306
IQI 12 Coronary Artery Bypass Graft (CABG) Mortality Rate	0.1502
IQI 13 Craniotomy Mortality Rate	0.1075
IQI 14 Hip Replacement Mortality Rate	0.2529
IQI 30 Percutaneous Coronary Intervention (PCI) Mortality Rate	0.3745
IQI 31 Carotid Endarterectomy Mortality Rate	0.0675
SUM	1

Table 27. NQF Denominator Weights for IQI 91

INDICATOR	WEIGHT
IQI 15 Acute Myocardial Infarction (AMI) MortalityRate	0.1521
IQI 16 Heart Failure MortalityRate	0.2553
IQI 17 Acute Stroke MortalityRate	0.1556
IQI 18 Gastrointestinal Hemorrhage MortalityRate	0.1385
IQI 19 Hip Fracture MortalityRate	0.0711
IQI 20 Pneumonia Mortality Rate	0.2274
SUM	1

Table A.1. Population Age Categories

POPCAT	AGE RANGE
1	low - 4
2	5 - 9
3	10 - 14
4	15 - 17
5	18 - 24
6	25 - 29
7	30 - 34
8	35 - 39
9	40 - 44
10	45 - 49
11	50 - 54
12	55 - 59
13	60 - 64
14	65 - 69
15	70 - 74
16	75 - 79
17	80 - 84
18	85 - high

Table A.2. Major Diagnostic Categories (MDC)

MDC	DESCRIPTION
1	Diseases & Disorders Of The Nervous System
2	Diseases & Disorders Of The Eye
3	Diseases & Disorders Of The Ear, Nose, Mouth & Throat
4	Diseases & Disorders Of The Respiratory System
5	Diseases & Disorders Of The Circulatory System
6	Diseases & Disorders Of The Digestive System
7	Diseases & Disorders Of The Hepatobiliary System & Pancreas
8	Diseases & Disorders Of The Musculoskeletal System & Conn Tissue
9	Diseases & Disorders Of The Skin, Subcutaneous Tissue & Breast
10	Endocrine, Nutritional & Metabolic Diseases & Disorders
11	Diseases & Disorders Of The Kidney & Urinary Tract
12	Diseases & Disorders Of The Male Reproductive System
13	Diseases & Disorders Of The Female Reproductive System
14	Pregnancy, Childbirth & The Puerperium
15	Newborns & Other Neonates With Condtn Orig In Perinatalperiod
16	Diseases & Disorders Of Blood, Blood Forming Organs, Immunologdisord
17	Myeloproliferative Diseases & Disorders, Poorly Differentiatedneoplasm
18	Infectious & Parasitic Diseases, Systemic Or Unspecified Sites
19	Mental Diseases & Disorders
20	20 Alcohol/Drug Use & Alcohol/Drug Induced Organic Mental Disorders
21	Injuries, Poisonings & Toxic Effects Of Drugs
22	Burns
23	Factors Influencing Hlth Stat & Othr Contacts With Hlth Servcs
24	Multiple Significant Trauma
25	Human Immunodeficiency Virus Infections
26	Other Represents All Other Mdc's Not Explicitly Included As A Parameter In The Qi Risk Adjustment Model

Table A.3. Categorical Variable Definitions: Transfer, Point of Origin

CATEGORY	DESCRIPTION	DEFINITION
TRNSFER	Transfer-in	If admission type (ATYPE) not equal to '4' (newborn) and - admission source (ASOURCE) equal to '2' (Another Hospital) or - point of origin (POINTOFORIGINUB04) equal to '4' (Transfer from a Hospital), then TRNSFER=1
NOPOUB04	UB-04 Point-ofOrigin Data Not Available	If admission source (ASOURCE) is not equal to missing and point of origin(POINTOFORIGINUB04) is equal to missing, then NOPOUB04=1
NOPRDAY	Procedure Days Data Not Available	If PRDAY1 and PRDAY2 and . . . PRDAYn is equal to missing, where n is the number of Procedure Codes reported in the user's data – then NOPRDAY = 1
RUPTURED	AAA Repair	If ICD-9-CM diagnosis code 441.3 Abdominal aneurysm, ruptured is present in the record, then RUPTURED=1

Table A.4. All Patients Refined Diagnosis Related Groups (APR DRG) Categories

APR-DRG*	TITLE
001	Liver Transplant
002	Heart &/or Lung Transplant
003	Bone Marrow Transplant
004	Tracheostomy W Long Term Mechanical Ventilation W Extensive Procedure
005	Tracheostomy W Long Term Mechanical Ventilation W/O Extensive Procedure
006	Pancreas Transplant
020	Craniotomy for Trauma
021	Craniotomy Except for Trauma
022	Ventricular Shunt Procedures
023	Spinal Procedures
024	Extracranial Vascular Procedures
026	Other Nervous System & Related Procedures
040	Spinal Disorders & Injuries
041	Nervous System Malignancy
042	Degenerative Nervous System Disorders Exc Mult Sclerosis
043	Multiple Sclerosis & Other Demyelinating Diseases
044	Intracranial Hemorrhage
045	CVA & Precerebral Occlusion w/ Infarct
046	Nonspecific CVA & Precerebral Occlusion w/o Infarct
047	Transient Ischemia
048	Peripheral, Cranial & Autonomic Nerve Disorders
049	Bacterial & Tuberculous Infections of Nervous System
050	Non-bacterial Infections of Nervous System Exc Viral Meningitis
051	Viral Meningitis
052	Nontraumatic Stupor & Coma

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APR-DRG*	TITLE
053	Seizure
054	Migraine & Other Headaches
055	Head Trauma w/ Coma > 1 Hr or Hemorrhage
056	Brain Contusion/Laceration & Complicated Skull FX, COMA < 1 HR OR No Coma
057	Concussion, Closed Skull FX Nos, Uncomplicated Intracranial Injury, Coma <1 Hr or No Com
058	Other Disorders of Nervous System
070	Orbital Procedures
073	Eye Procedures Except Orbit
080	Acute Major Eye Infections
082	Eye Disorders Except Major Infections
089	Major Cranial/Facial Bone Procedures
090	Major Larynx & Trachea Procedures
091	Other Major Head & Neck Procedures
092	Facial Bone Procedures Except Major Cranial/Facial Bone Procedures
093	Sinus & Mastoid Procedures
095	Cleft Lip & Palate Repair
097	Tonsill & Adenoid Procedures
098	Other Ear, Nose, Mouth & Throat Procedures
110	Ear, Nose, Mouth Throat, Cranial/Facial Malignancies
111	Vertigo & Other Labyrinth Disorders
113	Infections Of The Upper Respiratory Tract
114	Dental & Oral Diseases & Injuries
115	Other Ear, Nose, Mouth, Throat & Cranial/Facial Diagnoses
120	Major Respiratory & Chest Procedures
121	Other Respiratory & Chest Procedures
130	Respiratory System Diagnosis w/ Ventilator Support 96+ Hours
131	Cystic Fibrosis - Pulmonary Disease
132	BPD & Oth Chronic Respiratory Dis Arising In Perinatal Period

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APR-DRG*	TITLE
133	Pulmonary Edema & Respiratory Failure
134	Pulmonary Embolism
135	Major Chest & Respiratory Trauma
136	Respiratory Malignancy
137	Major Respiratory Infections & Inflammations
138	Bronchiolitis & RSV Pneumonia
139	Other Pneumonia
140	Chronic Obstructive Pulmonary Disease
141	Asthma
142	Interstitial Lung Disease
143	Other Respiratory Diagnosis Except Signs, Symptoms & Minor Diagnoses
144	Respiratory System Signs, Symptoms & Other Diagnoses
160	Major Cardiothoracic Repair of Heart Anomaly
161	Cardiac Defibrillator & Heart Assist Anomaly
162	Cardiac Valve Procedures w/ Cardiac Catheterization
163	Cardiac Valve Procedures w/o Cardiac Catheterization
165	Coronary Bypass w/ Cardiac Cath Or Percutaneous Cardiac Procedure
166	Coronary Bypass w/o Cardiac Cath Or Percutaneous Cardiac Procedure
167	Other Cardiothoracic Procedures
169	Major Thoracic & Abdominal Vascular Procedures
170	Permanent Cardiac Pacemaker Implant w/ AMI, Heart Failure or Shock
171	Perm Cardiac Pacemaker Implant w/o AMI, Heart Failure or Shock
173	Other Vascular Procedures
174	Percutaneous Cardiovascular Procedures w/ AMI
175	Percutaneous Cardiovascular Procedures w/o AMI
176	Cardiac Pacemaker & Defibrillator Device Replacement
177	Cardiac Pacemaker & Defibrillator Revision Except Device Replacement
180	Other Circulatory System Procedures

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APR-DRG*	TITLE
190	Acute Myocardial Infarction
191	Cardiac Catheterization w/ Circ Disord Exc Ischemic Heart Disease
192	Cardiac Catheterization for Ischemic Heart Disease
193	Acute & Subacute Endocarditis
194	Heart Failure
196	Cardiac Arrest
197	Peripheral & Other Vascular Disorders
198	Angina Pectoris & Coronary Atherosclerosis
199	Hypertension
200	Cardiac Congenital & Valvular Disorders
201	Cardiac Arrhythmia & Conduction Disorders
203	Chest Pain
204	Syncope & Collapse
205	Cardiomyopathy
206	Malfunction, Reaction & Comp of Cardiac or Vasc Device or Proc
207	Other Circulatory System Diagnoses
220	Major Stomach, Esophageal & Duodenal Procedures
221	Major Small & Large Bowel Procedures
222	Minor Stomach, Esophageal & Duodenal Procedures
223	Minor Small & Large Bowel Procedures
224	Peritoneal Adhesiolysis
225	Appendectomy
226	Anal Procedures
227	Hernia Procedures Except Inguinal, Femoral & Umbilical
228	Inguinal, Femoral & Umbilical Hernia Procedures
229	Other Digestive System & Abdominal Procedures
240	Digestive Malignancy
241	Peptic Ulcer & Gastritis

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APR-DRG*	TITLE
242	Major Esophageal Disorders
243	Other Esophageal Disorders
244	Diverticulitis & Diverticulosis
245	Inflammatory Bowel Disease
246	Gastrointestinal Vascular Insufficiency
247	Intestinal Obstruction
248	Major Gastrointestinal & Peritoneal Infections
249	Non-Bacterial Gastroenteritis, Nausea & Vomiting
251	Abdominal Pain
252	Malfunction, Reaction & Complication Of G.I. Device Or Procedure
253	Other & Unspecified Gastrointestinal Hemorrhage
254	Other Digestive System Diagnoses
260	Major Pancreas, Liver & Shunt Procedures
261	Major Biliary Tract Procedures
262	Cholecystectomy Except Laparoscopic
263	Laparoscopic Cholecystectomy
264	Other Hepatobiliary, Pancreas & Abdominal Procedures
279	Hepatic Coma & Other Major Acute Liver Disorders
280	Alcoholic Liver Disease
281	Malignancy of Hepatobiliary System & Pancreas
282	Disorders of Pancreas Except Malignancy
283	Other Disorders Of The Liver
284	Disorders of the Gallbladder & Biliary Tract
301	Hip Joint Replacement
302	Knee Joint Replacement
303	Dorsal & Lumbar Fusion Proc for Curvature of Back
304	Dorsal & Lumbar Fusion Proc Except for Curvature of Back
305	Amputation of Lower Limb Except Toes

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APR-DRG*	TITLE
308	Hip & Femur Procedures for Trauma Except Joint Replacement
309	Hip & Femur Procedures for Non-Trauma Except Joint Replacement
310	Intervertebral Disc Excision & Decompression
312	Skin Graft, Except Hand, For Musculoskeletal & Connective Tissue Diagnoses
313	Knee & Lower Leg Procedures Except Foot
314	Foot & Toe Procedures
315	Shoulder, Upper Arm & Forearm Procedures
316	Hand & Wrist Procedures
317	Tendon, Muscle & Other Soft Tissue Procedures
320	Other Musculoskeletal System & Connective Tissue Procedures
321	Cervical Spinal Fusion & Other Back/Neck Proc Exc Disc Excis/Decomp
340	Fractures of Femur
341	Fracture of Pelvis or Dislocation of Hip
342	Fracture or Dislocation Except Femur, Pelvis & Back
343	Musculoskeletal Malignancy & Pathol Fractures D/T Muscskel Malig
344	Osteomyelitis, Septic Arthritis & Other Musculoskeletal Infections
346	Connective Tissue Disorders
347	Other Back & Neck Disorders, Fractures & Injuries
349	Malfunction, Reaction & Comp of Orthopedic Device or Procedure
351	Other Musculoskeletal System & Connective Tissue Diagnoses
361	Skin Graft for Skin & Subcutaneous Tissue Diagnoses
362	Mastectomy Procedures
363	Breast Procedures Except Mastectomy
364	Other Skin, Subcutaneous Tissue & Related Procedures
380	Skin Ulcers
381	Major Skin Disorders
382	Malignant Breast Disorders
383	Cellulitis & Other Bacterial Skin Infections

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APR-DRG*	TITLE
384	Contusion, Open Wound & Other Trauma To Skin & Subcutaneous Tissue
385	Other Skin, Subcutaneous Tissue & Breast Disorders
401	Pituitary & Adrenal Procedures
403	Procedures for Obesity
404	Thyroid, Parathyroid & Thyroglossal Procedures
405	Other Procedures for Endocrine, Nutritional & Metabolic Disorders
420	Diabetes
421	Malnutrition, Failure To Thrive & Other Nutritional Disorders
422	Hypovolemia & Related Electrolyte Disorders
423	Inborn Errors of Metabolism
424	Other Endocrine Disorders
425	Electrolyte Disorders Except Hypovolemia Related
440	Kidney Transplant
441	Major Bladder Procedures
442	Kidney & Urinary Tract Procedures for Malignancy
443	Kidney & Urinary Tract Procedures for Nonmalignancy
444	Renal Dialysis Access Device Procedure Only
445	Other Bladder Procedures
446	Urethral & Transurethral Procedures
447	Other Kidney, Urinary Tract & Related Procedures
460	Renal Failure
461	Kidney & Urinary Tract Malignancy
462	Nephritis & Nephrosis
463	Kidney & Urinary Tract Infections
465	Urinary Stones & Acquired Upper Urinary Tract Obstruction
466	Malfunction, Reaction & Complic of Genitourinary Device Or Proc
468	Other Kidney & Urinary Tract Diagnoses, Signs & Symptoms
480	Major Male Pelvic Procedures

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APR-DRG*	TITLE
481	Penis Procedures
482	Transurethral Prostatectomy
483	Testes & Scrotal Procedures
484	Other Male Reproductive System & Related Procedures
500	Malignancy, Male Reproductive System
501	Male Reproductive System Diagnoses Except Malignancy
510	Pelvic Evisceration, Radical Hysterectomy & Radical GYN Procs
511	Uterine & Adnexa Procedures for Ovarian & Adnexal Malignancy
512	Uterine & Adnexa Procedures for Non-ovarian & Non-adnexal Malig
513	Uterine & Adnexa Procedures for Non-Malignancy Except Leiomyoma
514	Female Reproductive System Reconstructive Procedures
517	Dilation & Curettage For Non-Obstetric Procedures
518	Other Female Reproductive System & Related Procedures
519	Uterine & Adnexa Procedures For Leiomyoma
530	Female Reproductive System Malignancy
531	Female Reproductive System Infections
532	Menstrual & Other Female Reproductive System Disorders
540	Cesarean Delivery
541	Vaginal Delivery w/ Sterilization &/or D&C
542	Vaginal Delivery w/ Complicating Procedures Exc Sterilization &/or D&C
544	D&C, Aspiration Curettage or Hysterotomy For Obstetric Diagnoses
545	Ectopic Pregnancy Procedure
546	Other O.R. Proc For Obstetric Diagnoses Except Delivery Diagnoses
560	Vaginal Delivery
561	Postpartum & Post Abortion Diagnoses w/o Procedure
563	Threatened Abortion
564	Abortion w/o D&C, Aspiration Curettage or Hysterotomy
565	False Labor

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APR-DRG*	TITLE
566	Other Antepartum Diagnoses
580	Neonate, Transferred <5 Days Old, Not Born Here
581	Neonate, Transferred <5 Days Old, Born Here
583	Neonate, w/ ECMO
588	Neonate BWT <1500G W Major Procedure
589	Neonate BWT <500G or GA <24 weeks
591	Neonate, Birthwt 500-749G w/o Major Procedure
593	Neonate, Birthwt 750-999G w/o Major Procedure
602	Neonate, Birthwt 1000-1249G w/ Resp Dist Synd/Oth Maj Resp Or Maj Anom
603	Neonate, Birthwt 1000-1249G W OR W/O Other Significant Condition
607	Neonate, BWT 1250-1499G W Resp Dist Synd/Oth Maj Resp Or Maj Anom
608	Neonate, Birthwt 1250-1499G W OR W/O Other Significant Condition
609	Neonate, BWT 1500-2499G W Major Procedure
611	Neonate, Birthwt 1500-1999G W Major Anomaly
612	Neonate, BWT 1500-1999G W Resp Dist Synd/Oth Maj Resp Cond
613	Neonate, Birthwt 1500-1999G W Congenital/Perinatal Infection
614	Neonate, Birthwt 1500-1999G W OR W/O Other Significant Condition
621	Neonate, BWT 2000-2499G W Major Anomaly
622	Neonate, BWT 2000-2499G W Resp Dist Synd/Oth Maj Resp Cond
623	Neonate, Birthwt 2000-2499G W Congenital/Perinatal Infection
625	Neonate, Birthwt 2000-2499G W Other Significant Condition
626	Neonate, BWT 2000-2499G, Normal Newborn Or Neonate W Other Problem
630	Neonate, Birthwt > 2499g w/ Major Cardiovasc Procedure
631	Neonate, Birthwt > 2499g w/ Other Major Procedure
633	Neonate, Birthwt > 2499g w/ Major Anomaly
634	Neonate, Birthwt > 2499g W Resp Dist Synd/Oth Maj Resp Cond
636	Neonate, Birthwt > 2499g W Congenital/Perinatal Infection
639	Neonate, Birthwt > 2499g W Other Significant Condition

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APR-DRG*	TITLE
640	Neonate, Bwt > 2499g, Normal Newborn Or Neonate W Other Problem
650	Splenectomy
651	Other Procedures of Blood & Blood Forming Organs
660	Major Hematologic/Immunologic Diag Exc Sickle Cell Crisis & Coagul
661	Coagulation & Platelet Disorders
662	Sickle Cell Anemia Crisis
663	Other Anemia & Disorders Of Blood & Blood Forming Organs
680	Major O.R. Procedures For Lymphatic/Hematopietic/Other Neoplasms
681	Other O.R. Procedures For Lymphatic/Hematopietic/Other Neoplasms
690	Acute Leukemia
691	Lymphoma & Non-acute Leukemia
692	Radiotherapy
693	Chemotherapy
694	Lymphatic & Other Malignancies & Neoplasms Of Uncertain Behavior
710	Infectious & Parasitic Diseases Including HIV W O.R. Procedure
711	Post-Op,Post-Trauma, Other Device Infections W O.R. Procedure
720	Septicemia & Disseminated Infections
721	Post-Operative, Post-Traumatic, Other Device Infections
722	Fever
723	Viral Illness
724	Other Infectious & Parasitic Diseases
740	Mental Illness Diagnosis W O.R. Procedure
750	Schizophrenia
751	Major Depressive Disorders & Other/Unspecified Psychoses
752	Disorders of Personality & Impulse Control
753	Bipolar Disorders
754	Depression Except Major Depressive Disorder
755	Adjustment Disorders & Neuroses Except Depressive Diagnoses

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APR-DRG*	TITLE
756	Acute Anxiety & Delirium States
757	Organic Mental Health Disturbances
758	Childhood Behavioral Disorders
759	Eating Disorders
760	Other Mental Health Disorders
770	Drug & Alcohol Abuse or Dependence, Left Against Medical Advice
772	Alcohol & Drug Dependence w/ Rehab/Detox Therapy
773	Opioid Abuse & Dependence
774	Cocaine Abuse & Dependence
775	Alcohol Abuse & Dependence
776	Other Drug Abuse & Dependence
791	O.R. Procedure For Other Complications Of Treatment
811	Allergic Reactions
812	Poisoning Of Medicinal Agents
813	Other Complications of Treatment
815	Other Injury, Poisoning & Toxic Effect Diagnoses
816	Toxic Effects Of Non-Medicinal Substances
841	Extensive 3rd Degree Burns W Skin Graft
842	Full Thickness Burns W Skin Graft
843	Extensive 3rd Degree Or Full Thickness Burns W/O Skin Graft
844	Partial Thickness Burns W Or W/O Skin Graft
850	Procedure W Diag Of Rehab, Aftercare Or Oth Contact W Health Service
860	Rehabilitation
861	Signs, Symptoms & Other Factors Influencing Health Status
862	Other Aftercare & Convalescence
863	Neonatal Aftercare
890	HIV W Multiple Major HIV Related Conditions
892	HIV W Major HIV Related Condition

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APR-DRG*	TITLE
893	HIV W Multiple Significant HIV Related Conditions
894	HIV W One Signif HIV Cond Or W/O Signif Related Cond
910	Craniotomy For Multiple Significant Trauma
911	Extensive Abdominal/Thoraic Procedures For Mult Significant Trauma
912	Musculoskeletal & Other Procedures For Multiple Significant Trauma
930	Multiple Significant Trauma W/O O.R. Procedure
950	Extensive Procedure Unrelated To Principal Diagnosis
951	Moderately Extensive Procedure Unrelated To Principal Diagnosis
952	Nonextensive Procedure Unrelated To Principal Diagnosis

* In the coefficient table, the first three digits correspond to the base APR-DRG and the last digit corresponds to the severity level (Risk of Mortality Subclass 1-4). 1 is the lowest severity level and 4 the highest severity level.